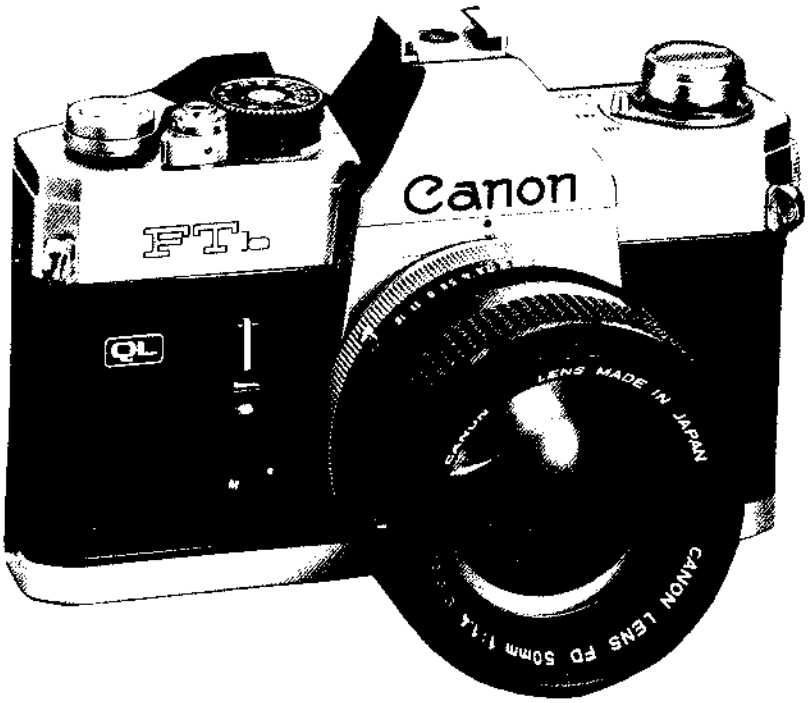
CANON SERVICE MANUAL

Canon FTb



CANON INC. JAPAN

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HOW TO USE THIS SERVICE MANUAL

Canon Service Manual consists of the following six sections: General, Repair Manual, Repair Guide, Service Tools List, Price List of Spare Parts and Service Manual Reports, which will be issued if the outward appearence, function or design of the product is changed. These six sections are divided by index sheets for easy identification.

GENERAL

The General section consists of information useful to the repairman. It may consist of any or all of the following: technical specifications, design principals, circuit explanations, new or unusual repair technics, or any other information useful to the repairman.

REPAIR MANUAL

1. The Repair Manual consists of Illustrated Parts List, containing Exploded Views and Parts List, and a numercial Part Number Index.
2. The parts list for each Exploded View is on the facing page and both pages have the same number.
3. The Illustrated Parts List are arrainged in the correct sequence of dissambly, but it is not always necessary to follow the sequence exactly to remove a certain part, or make a particular adjustment.
4. The Table of Contents list the mechanisms. To identify a part in the exposure meter, find EXPOSURE METER in the table and then turn to the Exploded view on the listed page.
5. The Parts List consist of five columns. The function of each column is :
   - Column 1. Part description in Japanese
   - Column 2. CLASS : This column list the consumption code letter for the part. This indicates the replacement probability. For a complete explanation, refer to the "PARTS LIST of CANON PHOTO PRODUCTS".
   - Column 3. PARTS NO. This column list the part number.
   - Column 4. QTY. This column list the number of identical parts used in the mechanism.
     - A. If several part numbers appear in square brackets and an N appears in the QTY. column, the part numbers indicate simular but not identical parts. The correct one should be used. Normally these are shims or washers of different thickness or ND filters of different transmission factor.

Ex.	Class	Parts No.	QTY.	Description
	A	[X32-505211] [X32-505212]	N	Washer

     - B. If a single part number appears with an N in the QTY. column, it indicates that several of the part will probably be needed. Normally these are thin shims or washers.

Ex.	Class	Parts NO	Qty.	Description
	A	X32-504621	N	Washer

6. Parts listed in parenthesis ( ) in the Exploded View are available individually, but are also a part of a Bonded Part (B.P.).
7. When a part number is known but its use is not, locate it in the numerical Index of Part Numbers and turn to the indicated page.

REPAIR GUIDE

1. The repair guide contains the necessary instructions for complete repair, adjustment, and troubleshooting of the product.
2. In the troubleshooting section, the troubles are classified by mechanism. Possible causes and their remedies are listed for each trouble.
   But we Canon Inc. firmly believe that none of these troubles can happen.

SERVICE TOOLS LIST

1. This list all special tools and test equiptment required for service after sales and their uses.
2. For specifications and detailed explanation of test equiptment, see the Service Manual Report for the test equiptment.
3. Special Screwdrivers are listed in numerical order. Their part number includes the part number of the part they are designed to remove.
   Ex. Screwdriver TO6A-13-8033-1 was designed to remove part 13-8033.

PRICE LIST OF SPARE PARTS

1. Price List of Spare Parts presents the unit price of the service parts you receive from us.
2. The unit price is F.O.B. Tokyo/Yokohama.
3. The page number on the Repair Manual in which each part is described is shown on the right side of each part so that you may easily identify.
4. All the prices of the Spare Parts on the Price List section are subject to change without notice.

SERVICE MANUAL REPORT

In keeping with our policy of the best service after sale, Service Manual Reports are issued when any ninor change is made in the product such as design or production changes, added capabilities, or appearence changes. Major changes are covered by the issuance of a revised Service Manual.

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Canon FTb

1. Specifications

1.1 Model: 35mm focal plane shutter single-lens reflex system camera

1.2 Frame size: 24 x 36mm

1.3 Interchangeable Lenses: All lenses with Canon B (bayonet) Mount are usable. (Except FLP38mm 1 : 2.8)

1. FD lenses are especially designed for the F-1 and FTb. They have automatic diaphragm and allow maximum aperture metering.
2. FL lenses are used with stopped-down TTL metering and automatic diaphragm.
3. R lenses use stopped down TTL metering, but the diaphragm must be operated manually.

1.4 Viewfinder

1. Type: Single-lens reflex system eyelevel finder with fixed pentaprism.
   Finder attachments: Angle finder A, magnifier and eyesight correction lenses.
2. Finder information
   (1) Focusing and depth of field preview.
   (2) CdS metering area (Indicated by a slightly darker rectangle in the center of the viewfinder.
   (3) Ring-tipped following needle and meter needle
   (4) Warning mark which detects incorrect exposure (Upper and lower zones)
   (5) Index for stopped-down metering. Also used for battery checker index
   (6) Red warning mark which indicates that the selected shutter is out of the meters range.
3. Magnification: 0.85 with standard 50mm lens at infinity
4. Field of View: 94% of actual frame
5. Eyepiece: -1 dioptor (standard)

1.5 Mirror

1. Instant return, total reflection type
2. Mirror lock mechanism: The mirror can be locked at any time by setting the lock lever to "M" position with the metering lever pushed. It is never necessary to lose a frame to lock the mirror.

When the mirror is up, the lens is automatically switched to the manual diaphragm operation.

1 6 Lens mount

1. Mount: Canon BB special breach lock bayonet mount. All lenses of FD, FL and R series can be attached. (except FLP 38mm 1 : 2.8)
Distance between mounting flange and pressure plate center: 42.14 ± 0.015mm

2. Lens coupling

   (1) Aperture signal lever for FD lens (right side facing mount)

   (2) Automatic diaphragm lever (underside)

   (3) Max. aperture correction lever (right lower corner facing mount)

3. Accessories are the same as those on FT with the exception of FD lens.

1.7 Shutter

1. Type: Cloth curtain focal plane shutter

2. Shutter speed dial

   (1) Single spindle, non-rotary system, equal interval scale

   (2) Shutter speed scale order:
   B, 1, 2, 4, 8, 15, 30, 60, 125, 250, 500, 1000

   X sync is at "60" which is yellow orange.
   Other speeds are white.

   (3) Film speed scale: ASA (25 - 2000)

3. Shutter curtain speed: 14.0 - 15.5 (36mm)

4. Shutter button
By turning the shutter button lock lever to the red "L" the shutter button is locked. However, a cable release can still be used.

5. Self-timer

   (1) The self-timer is built in, charged by lever, and released by the shutter button. It can be charged at any time.

   (2) The delay time can be controlled. Maximum time: About 10 sec.

   (3) The self-timer lever is also used for the stopped-down metering lever when FL series lenses are used, and as a depth-of-field preview with FD or FL lenses.

   (4) With the lever locked, the self-timer can still be used.

1.8 Exposure alignment mechanism

1. Type: Unique TTL metering system with a CdS having high sensitivity and wide metering range is installed at the rear of the condenser lens which has a half mirror.

2. Metering method: Maximum aperture central area metering system. The area measured is visable in the finder. (With lenses other than FD lenses, stopped down metering is used.)

3. Metered area: The metering area is about 12% of frame. (Linerally, the center 1/3 of the frame is measured.) The size is 12 x 8mm.
The reflection ratio of the half mirror is 15%.

4. Meter: Pivot type equal interval meter.

5. Metering mechanism: By matching the following meedle to the meter needle, exposure is adjusted. The following needle moves when the aperture ring of FD series lenses is turned. The meter needle deflects as shutter speed, film speed or brightness of object varies.

   (1) When using FD series lenses, correct exposure can be obtained by merely setting the meter main switch to "ON" and then matching the following needle to the meter needle.
   Correction for different maximum apertures is automatic.

   (2) When using FL series lenses
   a) Set the meter main switch to "ON".
   b) Turn the self-timer lever to the metering position. (By this procedure, the following needle swings to the bottom of the finder and the automatic diaphragm lever is actuated, so the lens stops down to the preset aperture.)
   c) Make adjustment by turning the aperture ring so that the meter needle in the finder coincides with the index for stopped-down metering. When the needle aligns with the index, the exposure is correct.
   When an FD lens is used, stopped-down metering is possible by turning the self-timer lever; but it is not recommended for critical exposure at large apertures since the system is corrected for open aperture measurement when using FD lenses.

6. Metering lock
   By setting the lock lever to "L" and pushing the lever to the metering position, the aperture is stopped down and locked. The metering lock is convenient with the Booster.

7. Exposure meter coupling range:
When F1.4 lens is used with ASA 100 film;
EV3 - EV 18 (F1.4, 1/4 sec - F16, 1/1000 sec.)
When the shutter speed is out of range, a red warning signal appears in the right lower corner of the finder.

8. Exposure meter battery: Model HD mercury cell (equivalent to Mallory PX625 or Eveready E625N) 1 ea, 1.3V Caution: use only mercury cell

9. Battery checker: When the shutter speed dial set to 1/1000 sec. and ASA 100, and the main switch set to "C", the cell voltage is correct if the meter needle swings to or above the index.

10. Film speed setting: Lift and turn the shutter dial until the correct ASA speed is visable in the window
Scale order: ASA 25
Scale order: ASA 25 (32.40) 50 (64.80) 100 (125.160)
200 (250.320) 400 (500.640) 800 (1000.1250)
1600 (2000)

1.9 Flash

1. CAT system (CANON AUTO TUNING SYSTEM):
The CAT system gives semi-automatic (match-needle) flash using the Canon Speedlite 133D and related accessories with the following FD lens: 50mm 1 : 1.4, 50mm 1 : 1.8, and 35mm 1 : 2.

2. Flash synchronization: Automatic timelag adjustment
1/1000 - 1/250 sec: FP sync
1/60 - 1 sec and B: X sync
1/30 - 1 sec and B: M, MF sync

3. Flash socket: Standard European (PC) type located on the front of the body.
The accessory shoe has a cordless contact and CAT control.

1.10 Body

1. Film chamber: Accepts standard 35mm film cartridge.

2. Film loading: Easy, speedy loading equipped with patented Canon QL system.

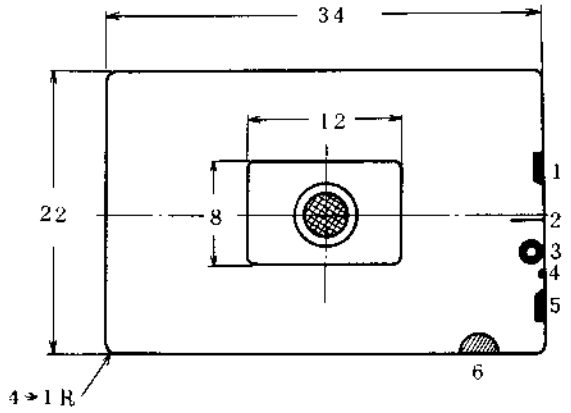
3. Film winding: Single stroke winding combined with shutter cocking. Ratchet winding is possible.
Winding angle: 174 degrees
Play: 21 degrees

4. Back cover: The back cover is opened by pulling the rewind knob up.

2. Details

2.1 Finder

It has been generally agreed since the original FT QL was put on the market that the finder is bright, clear and easy to focus. To further improve its function, the eyepoint has been moved back 2mm to 16mm through modification of the pentaprism eyepiece lens, and the radius of the corners of the finder frame has been to make the viewfinder image agree more closely with the actual frame.
Also, because of adoption of maximum aperture metering with, the meter needle (2), following needle (3), index point (4), and warning marks (1&5) visable in the finder, operation has been simplified.
A red warning mark (6) appears in the lower right corner of the finder when the sutter speed is beyond the range of the exposure meter.



2.2 TTL metering system

The metering system is exactly the same as Canon F-1, and max. aperture metering by FD lens is available.
The construction and operation are almost the same as F-1.

2.3 Following needle Automatic Flash System

The principle and construction are the same as F-1.
The FTb has the flash cordless contact and control contacts on a standard accessory shoe, therefore the flash coupler used on the F-1 is not necessary. The Canon Speedlite 133D is scheduled to be put on sale in the near future, so this system will be complete.

2.4 Human Engineering

Controls are basically the same as the well proven FT QL but detail changes have been made to make it easier to operate. The changes were made from user's suggestions. The shutter dial has been heightened 1.4mm and the markings made more legible.
Another change is in the back cover opening. The cover now opens by simply pulling up on the rewind knob. The detent has been strengthened to prevent accidental opening.

5. Film counter: Normal counting system coupled with film winding.
   Automatic reset when back cover is opened.

6. Accessory shoe: Located on pentaprism head (with cordless contact)

7. External dimensions: 144 x 93 x 43mm (Body only)

8. Weight: 750g (Body only)

CANON REPAIR MANUAL

CANON FTb
(REF. NO. 1-20395)

CANON BLACK FTb
(REF. NO. 1-20396)

CANON INC. JAPAN

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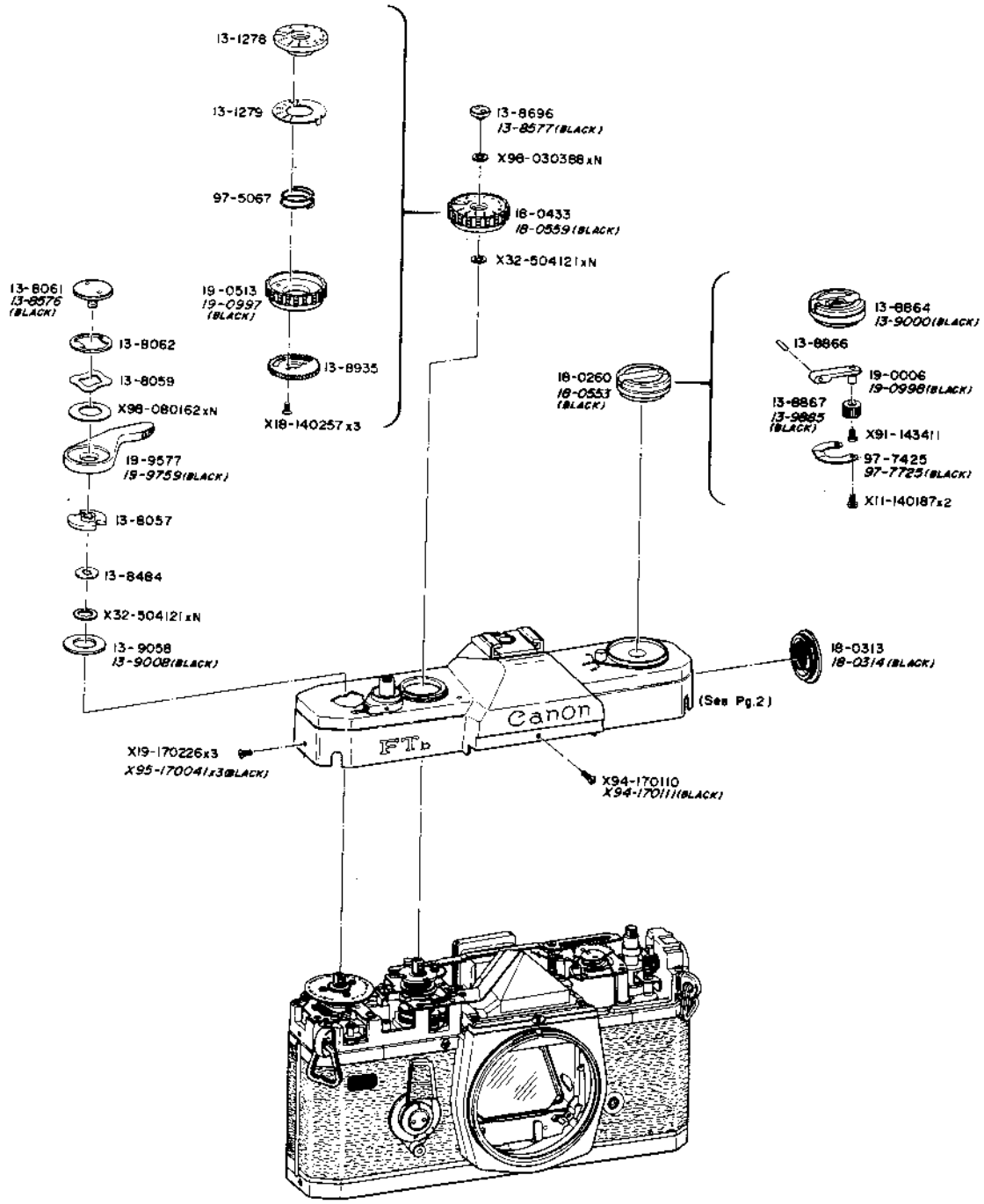
EXPLODED VIEW
of

CANON FTb, BLACK FTb



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PARTS LIST

SHUTTER SPEED DIAL & REWIND CRANK

シャッター スピードダイアル　巻き戻しクランク

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
シャッター文字盤	D	13-1278	1	Shutter Speed Dial
ASA盤	C	13-1279	1	ASA Dial
巻き上げレバー座	D	13-8057	1	Winding Lever Seat
スプリングワッシャー	D	13-8059	1	Spring Washer
カニ目ビス	C	13-8061	1	Pin Face Screw
ワッシャー	D	13-8062	1	Washer
ワッシャー	D	13-8484	1	Washer
カニ目ビス	C	13-8576	1	Pin Face Screw
カニ目ビス	C	13-8577	1	Pin Face Screw
カニ目ビス	C	13-8696	1	Pin Face Screw
巻き戻しクランクつまみ	E	13-8864	1	Rewind Crank Knob
喋番軸	E	13-8866	1	Pivot
つまみ	E	13-8867	1	Rewind Knob
ASAセット盤	E	13-8935	1	ASA Setting Disk
巻き戻しクランクつまみ	E	13-9000	1	Rewind Crank Nob
スペーサー	D	13-9008	1	Spacer
スペーサー	D	13-9058	1	Spacer
つまみ	E	13-9885	1	Rewind Knob
巻き戻しクランクユニット	D	18-0260	1	Rewind Crank Unit
電池室ふた	C	18-0313	1	Battery Cover
電池室ふた	C	18-0314	1	Battery Cover
シャッターダイヤルユニット	C	18-0433	1	Shutter Speed Dial
巻き戻しクランクユニット	D	18-0553	1	Rewind Crank Unit
シャッターダイヤルユニット	C	18-0559	1	Shutter Speed Dial
巻き戻しクランク	D	19-0006	1	Rewind Crank
シャッターダイヤルつまみ	C	19-0513	1	Knurled Knob
シャッターダイヤルつまみ	C	19-0997	1	Knurled Knob
巻き戻しクランク	D	19-0998	1	Rewind Crank
巻き上げレバー	D	19-9577	1	Winding Lever
巻き上げレバー	D	19-9759	1	Winding Lever
コイルスプリング	D	97-5067	1	Coil Spring
クリックスプリング	D	97-7425	1	Click Spring
クリックスプリング	D	97-7725	1	Click Spring
平ビス		X11-140187	2	Screw
十字皿ビス		X18-140257	3	Screw
十字丸皿ビス		X19-170226	3	Screw
調整ワッシャー		X32-504121 X32-504122	N	Adjusting Washer
平ビス		X91-143411	1	Screw
皿ビス		X94-170110	1	Screw
皿ビス		X94-170111	1	Screw
丸皿ビス		X95-170041	3	Screw
ワッシャー		X98-030388	1	Washer
調整ワッシャー		X98-080162	N	Adjusting Washer

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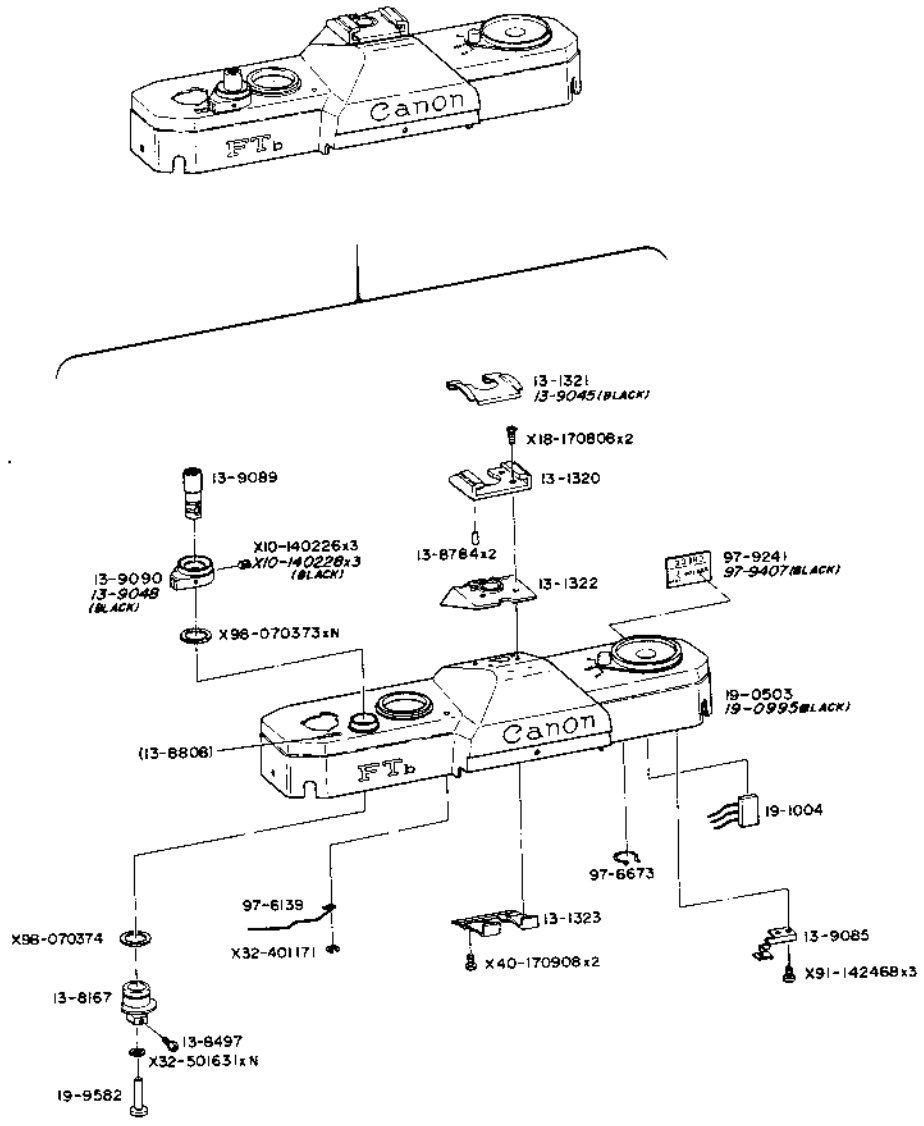

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TOP COUER

上部カバー

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
アクセサリーシュー	D	13-1320	1	Accessory Shoe
板バネ	C	13-1321	I	Plate Spring
アクセサリーシュー台	D	13-1322	1	Accessory Shoe Base
アクセサリーシュー止め板	D	13-1323	1	Shoe Rest Base
シャッター釦受け	D	13-8167	1	Shutter Button Sleeve
ガイドビス	D	13-8497	1	Guide Screw
ストッパーピン	D	13-8784	2	Stopper Pin
枚数盤窓	D	13-8808	1	Film Counter Window
板バネ	C	13-9045	1	Plate Spring
シャッター釦ロック	D	13-9048	1	Shutter Button Lock
クリック板	D	13-9085	1	Click Plate
シャッター釦	D	13-9089	1	Shutter Button
シャッター釦ロック	D	13-9090	1	Shutter Button Lock
上部カバー	C	19-0503	1	Top Cover
上部カバー	C	19-0995	1	Top Cover
ラグ板	C	19-1004	1	Lug
シャッター釦軸	D	19-9582	1	Shutter Button Shaft
スプリング	D	97-6139	1	Spring
スプリング	D	97-6673	1	Spring
チェッカー指示板	C	97-9241	1	Battery Checker Indicator
チェッカー指示板	C	97-9407	1	Battery Checker Indicator
止めビス		X10-140226	3	Screw
止めビス		X10-140228	3	Screw
十字ナベビス		X18-170808	2	Screw
緊定ワッシャー		X32-401171	1	Retaining Washer
ワッシャー		X32-501631	N	Washer
十字ナベビス		X40-170908	2	Screw
平ビス		X91-142468	3	Screw
調整ワッシャー		X98-070370 X98-070371 X98-070372 X98-070373 X98-070374	N	Adjusting Washer

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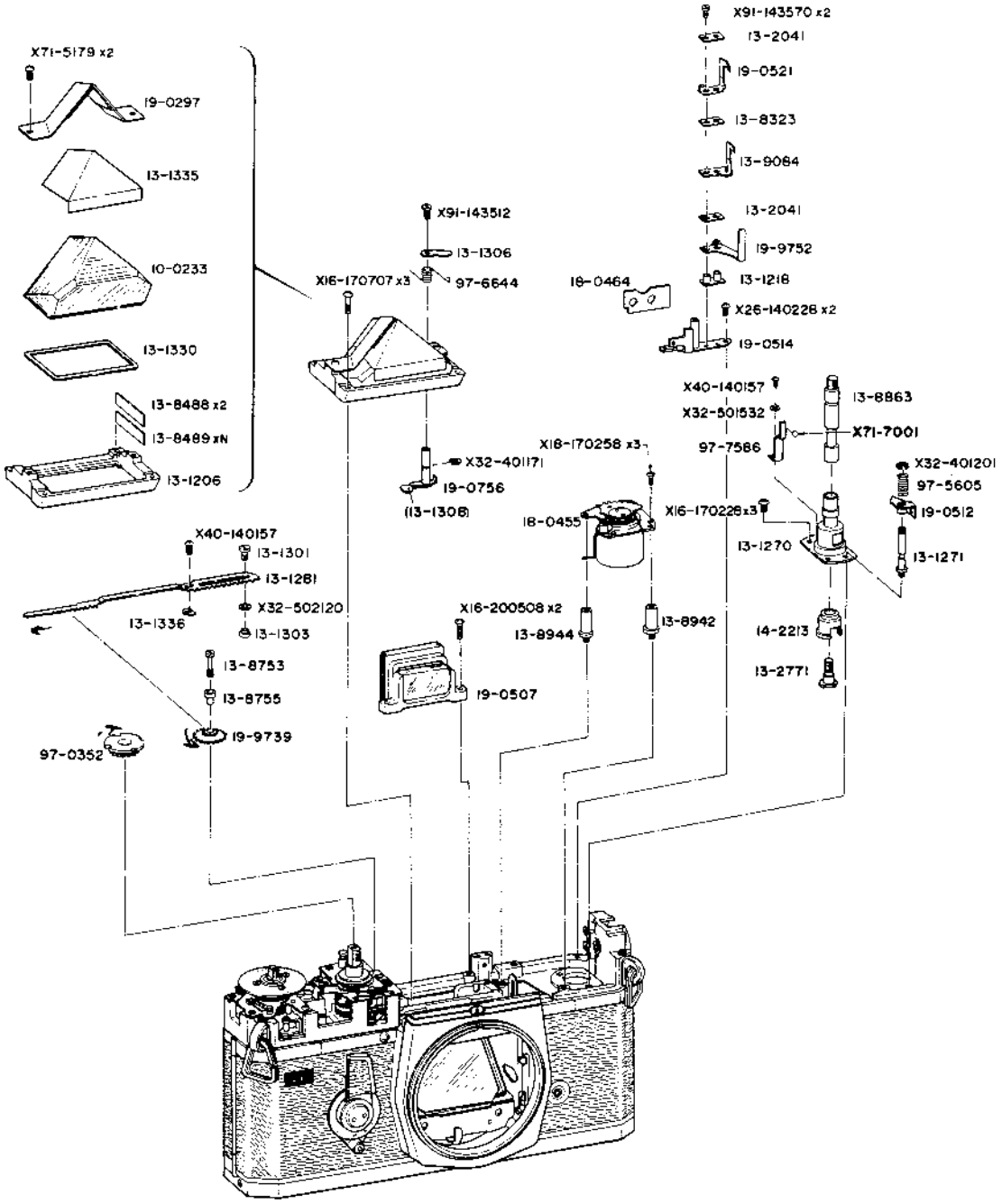

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PARTS LIST

PENTAPRISM & METER UNIT
ペンタプリズム　メーターユニット

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
ペンタプリズム	C	10-0233	1	Pentaprism
ペンタプリズムボックス	E	13-1206	1	Pentaprism Box
絶縁台	D	13-1218	1	Insulator Base
巻き戻し軸受け	D	13-1270	1	Rewind Shaft Holder
開閉レバー軸	D	13-1271	1	Stud
メーターセットカム	C	13-1281	1	Meter Set Cam
平ビス	D	13-1301	1	Screw
カラー	D	13-1303	1	Collar
警告レバー	D	13-1306	1	Warning Lever
警告マーク	C	13-1308	1	Warning Mark
マスク	D	13-1330	1	Mask
ペンタプリズムカバー	C	13-1335	1	Pentaprism Cover
ナット	D	13-1336	1	Nut
絶縁板	D	13-2041	2	Insulator
巻き戻しフォーク軸	D	13-2771	1	Rewind Fork Shaft
絶縁板	D	13-8323	1	Insulator
スペーサー	D	13-8488	2	Spacer
スペーサー	C	13-8489	N	Spacer
ピニオン軸	E	13-8753	1	Pinion Shaft
カラー	D	13-8755	1	Collar
巻き戻し軸	D	13-8863	1	Rewind Shaft
メーター取り付け柱	E	13-8942	1	Meter Support
メーター取り付け柱	E	13-8944	1	Meter Support
接片	D	13-9084	1	Contact
巻き戻しフォーク	C	14-2213	1	Rewind Fork
メーターユニット	C	18-0455	1	Meter Unit
半固定抵抗ユニット	C	18-0464	1	Variable Resistor Unit
ペンタプリズム押え	D	19-0297	1	Pentaprism Holder
アイピース	D	19-0507	1	Eyepiece
開閉レバー	C	19-0512	1	Opening Lever
メーター取り付け地板	D	19-0514	1	Meter Support Base
メーター接片	D	19-0521	1	Meter Contact
警告レバー	D	19-0756	1	Warning Lever
アイドルギヤー	D	19-9739	1	Idle Gear
チェッカー接片	D	19-9752	1	Checker Contact
連動ギヤー	C	97-0352	1	Coupling Gear
コイルスプリング	D	97-5605	1	Coil Spring
スプリング	D	97-6644	1	Spring
クリックスプリング	D	97-7586	1	Click Spring
十字ナベビス		X16-170228	3	Screw
十字ナベビス		X16-170707	3	Screw
十字ナベビス		X16-200508	2	Screw
十字皿ビス		X18-170258	3	Screw
十字ナベビス		X26-140228	2	Screw
緊定ワッシャー		X32-401171	1	Retaining Washer
緊定ワッシャー		X32-401201	1	Retaining Washer
調整ワッシャー		X32-501531 X32-501532 X32-501533	N	Adjusting Washer
ワッシャー		X32-502120	1	Washer
十字ナベビス		X40-140157	2	Screw
十字ナベビス		X71-5179	2	Screw
スチールボール		X71-7001	1	Steel Ball
平ビス		X91-143512	1	Screw
平ビス		X91-143570	2	Screw

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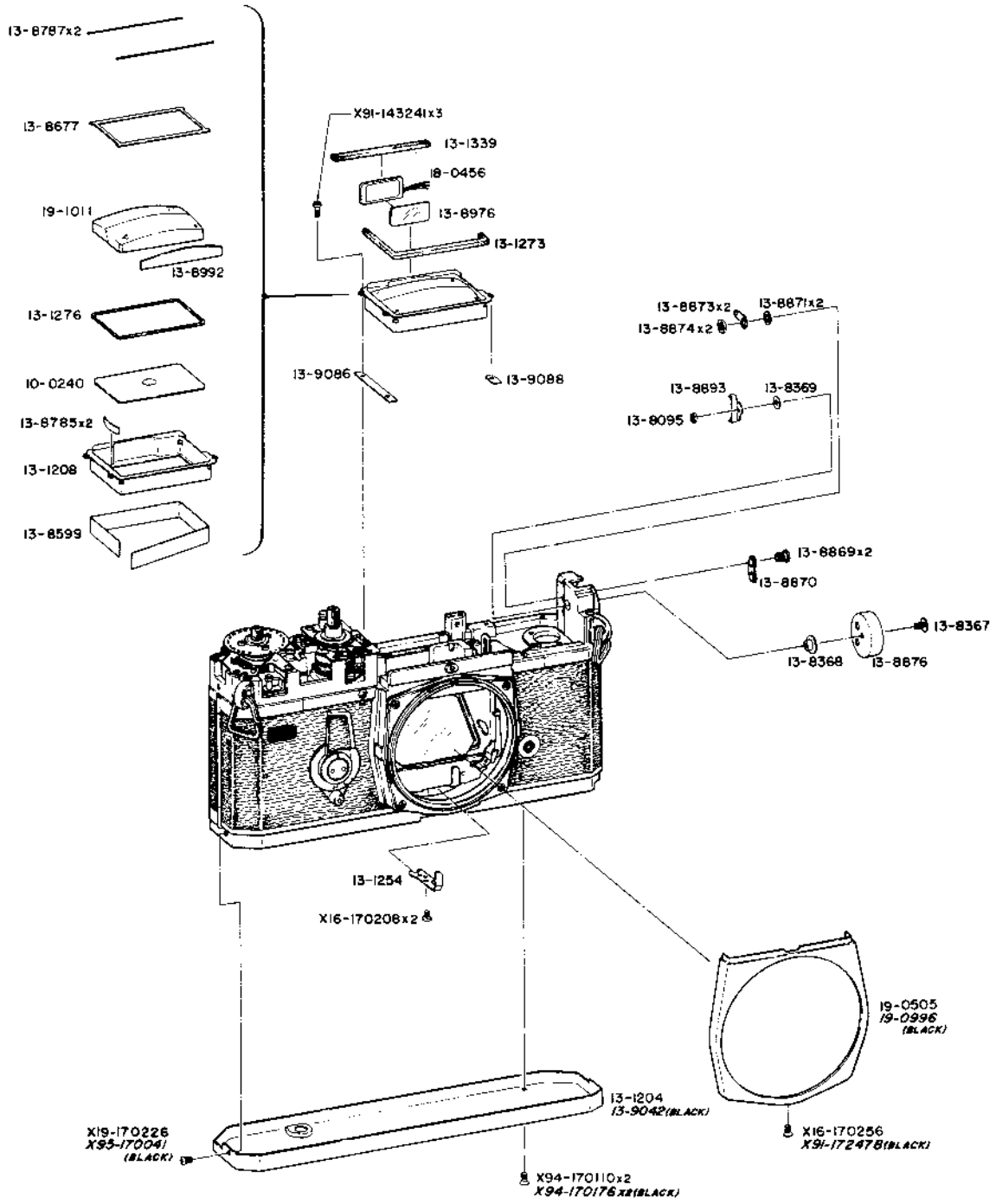
EXPLODED VIEW
of

CANON FTb, BLACK FTb



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PARTS LIST

FOCUSING SCREEN & BOOSTER SOCET

フォーカシング スクリーン　ブースター ソケット

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
フォーカシングスクリーン	C	10-0240	1	Focusing Screen
下部カバー	C	13-1204	1	Base Cover
コンデンサーボックス	E	13-1208	1	Condenser Lens Box
絞りたたきレバー	D	13-1254	1	Diaphragm Release Lever
モルトプレーン	D	13-1273	1	Light Shield
マスク	D	13-1276	1	Mask
モルトプレーン	D	13-1339	1	Light Shield
ナット	D	13-8095	1	Nut
平ビス	D	13-8367	1	Screw
絶縁板	D	13-8368	1	Insulator
絶縁板	D	13-8369	1	Insulator
ビニールテープ	C	13-8599	1	Vinyl Tape
マスク	D	13-8677	1	Mask
板バネ	D	13-8785	2	Plate Spring
スプリングピン	C	13-8787	2	Spring Pin
ブースターソケット	D	13-8869	2	Booster Contact
絶縁板	D	13-8870	1	Insulator
絶縁板	D	13-8871	2	Insulator
ラグ板	D	13-8873	2	Lug
ナット	D	13-8874	2	Nut
電池室	D	13-8876	1	Battery Case
チェッカー接片	D	13-8893	1	Checker Contact
NDフィルター CdS感度の調整に使用するカッコ内の数字は透過率を示す。（単位%）	D	13-8976(60.0) 13-8976(65.0) 〜 13-8976(90.0) 13-8976(95.0)	N	ND Filter Used to adjust CdS Sensitivity. The number in parenthesis indicates the transmission percentage.
遮光板	E	13-8992	1	Light Shield
下部カバー	C	13-9042	1	Base Cover
調整ワッシャー カッコ内の数字はワッシャーの厚さを示す。（単位mm）	C	13-9086(0.10) 13-9086(0.20)	N	Adjusting Washer Number in Parenthesis indicates washer thickness in mm.
調整ワッシャー	C	13-9088(0.03) 13-9088(0.05) 13-9088(0.10) 13-9088(0.20) 13-9088(0.30) 13-9088(0.40) 13-9088(0.50) 13-9088(0.60)	N	Adjusting Washer Number in parenthesis indicates washer thickness in mm.
CdSユニット	C	18-0456	1	CdS Unit
エプロン	C	19-0505	1	Front Cover
エプロン	C	19-0996	1	Front Cover
コンデンサーレンズ	C	19-1011	1	Condenser Lens
十字ナベビス		X16-170208	2	Screw
十字ナベビス		X16-170256	1	Screw
十字丸皿ビス		X19-170226	1	Screw
平ビス		X91-143241	3	Screw
平ビス		X91-172478	1	Screw
皿ビス		X94-170110	2	Screw
皿ビス		X94-170176	2	Screw
丸皿ビス		X95-170041	1	Screw

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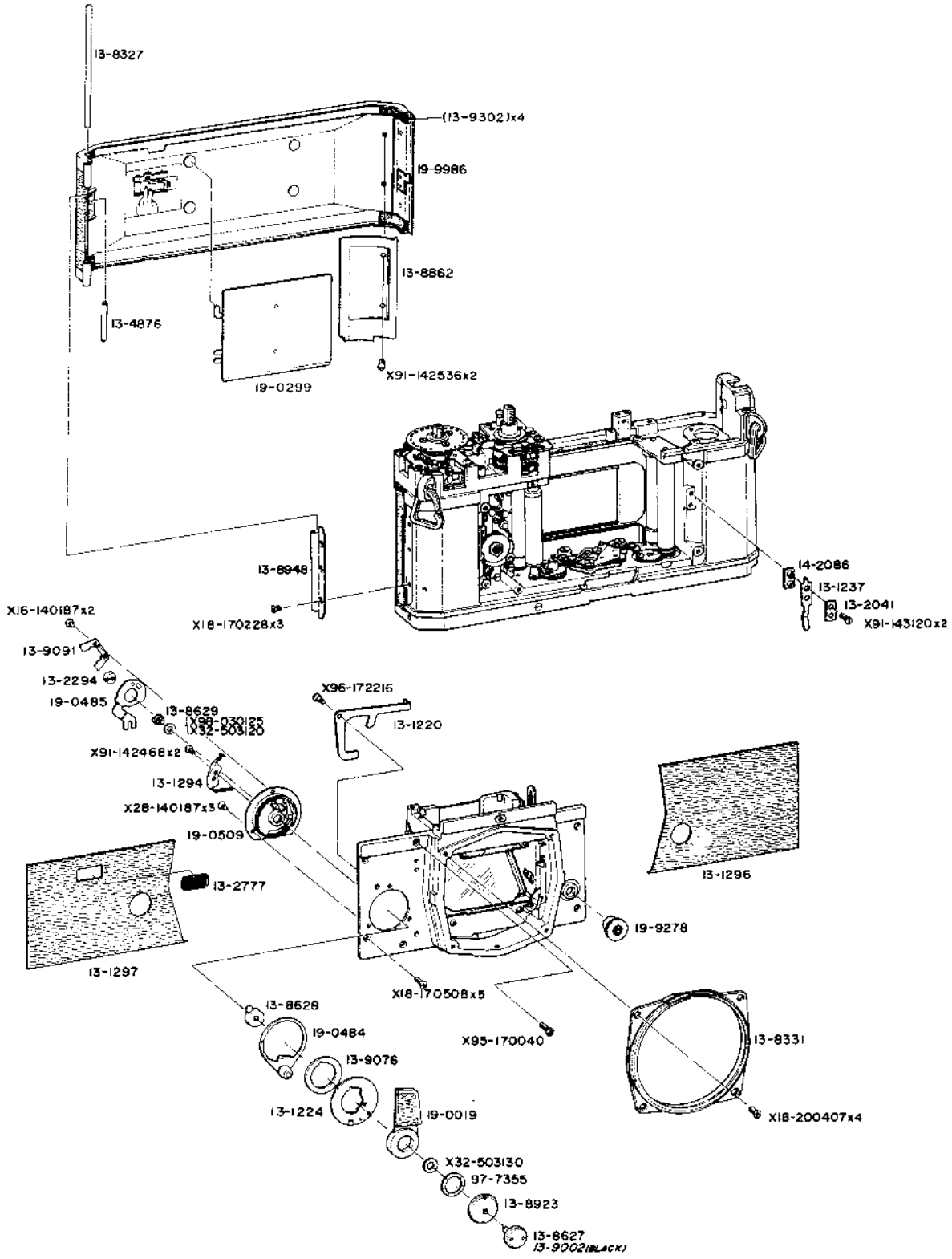
EXPLODED VIEW
of

CANON FTb, BLACK FTb



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PARTS LIST

SELF TIMER LEVER & BACK COVER
セルフ タイマー レバー　　裏 ぶ た

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
ミラークランプレバー	D	13-1220	1	Mirror Clamp Lever
指標板	C	13-1224	1	Index Plate
アース接片	D	13-1237	1	Earth Contact
キャッチャースプリング	C	13-1294	1	Catcher Spring
レザー	B	13-1296	1	Leather
レザー	B	13-1297	1	Leather
絶縁板	D	13-2041	1	Insulator
ジョイント	C	13-2294	1	Coupling Joint
QLマーク	D	13-2777	1	QL Mark
蝶番軸	E	13-4876	1	Shaft of Hinge
蝶番軸	D	13-8327	1	Shaft of Hinge
マウント	D	13-8331	1	Lens Mount
カニ目ビス	C	13-8627	1	Pin Face Screw
チャージリング	D	13-8628	1	Self Timer Charge Ring
角ジョイント	E	13-8629	1	Coupling Ring
パトローネ押え	E	13-8862	1	Cassette Holder
セルフタイマー指標	D	13-8923	1	Self Timer Index
蝶番	E	13-8948	1	Hinge
カニ目ビス	C	13-9002	1	Pin Face Screw
スペーサー	C	13-9076	1	Spacer
ストッパー	D	13-9091	1	Stopper
遮光板	C	13-9302	4	Light Shield
絶縁板	D	14-2086	1	Insulator
セルフタイマーレバー	C	19-0019	1	Self Timer Lever
圧着板	C	19-0299	1	Pressure Plate
ロックレバー	D	19-0484	1	Lock Lever
フォークレバー	D	19-0485	1	Fork Lever
セルフレバー受け	D	19-0509	1	Lever Holder
フラッシュターミナル	D	19-9278	1	Flash Terminal
裏ぶた	D	19-9986	1	Back Cover
板バネ	D	97-7355	1	Plate Spring
十字ナベビス		X16-140187	2	Screw
十字皿ビス		X18-170228	3	Screw
十字皿ビス		X18-170508	5	Screw
十字皿ビス		X18-200407	4	Screw
十字皿ビス		X28-140187	3	Screw
ワッシャー		X32-503120	N	Washer
調整ワッシャー		[X32-503130 X32-503131]	N	Adjusting Washer
平ビス		X91-142468	2	Screw
平ビス		X91-142536	2	Screw
平ビス		X91-143120	2	Screw
丸皿ビス		X95-170040	1	Screw
段ビス		X96-172216	1	Screw
ワッシャー		X98-030125	N	Washer

REF. NO. 1-20395
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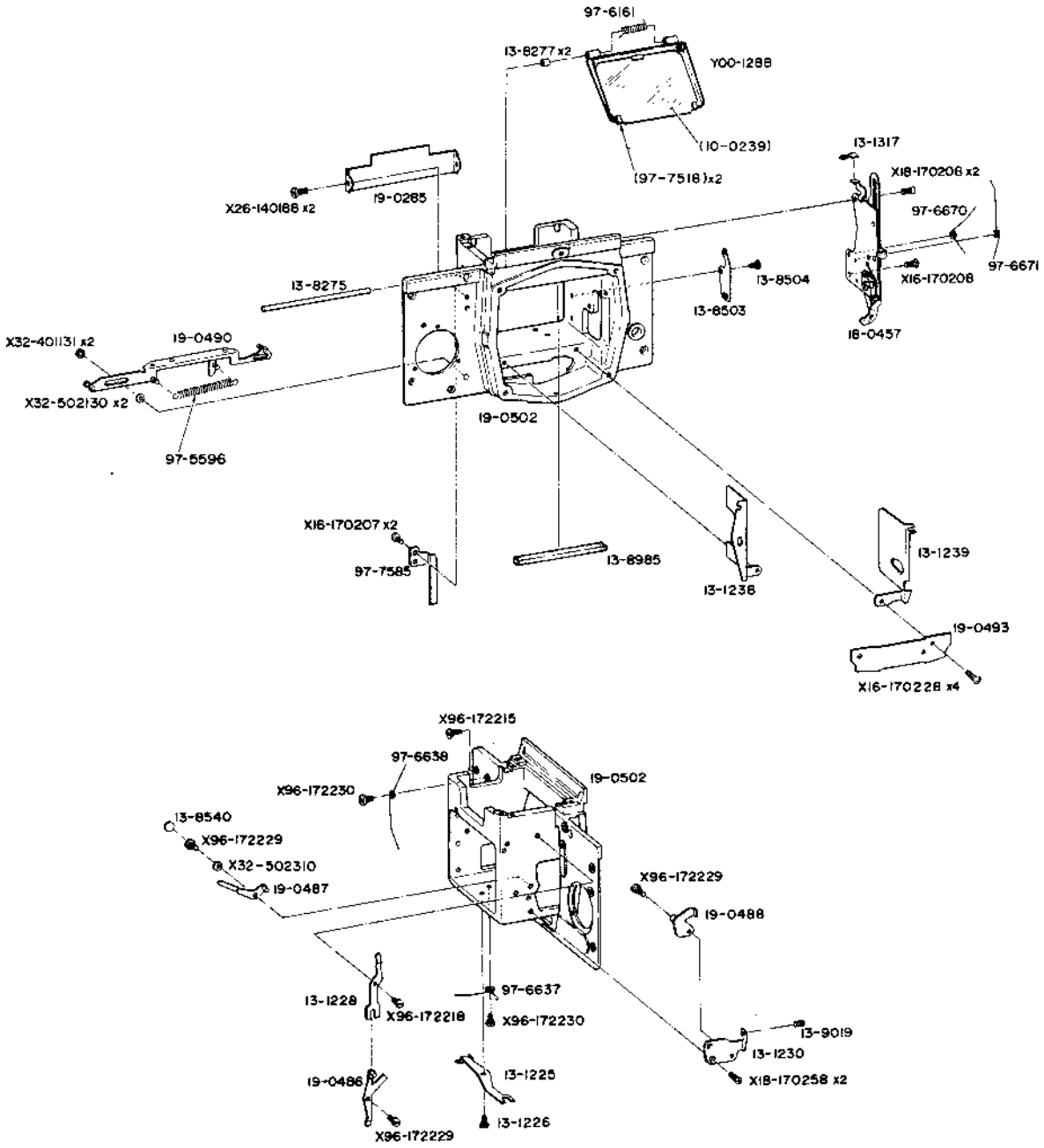
EXPLODED VIEW
of

CANON FTb, BLACK FTb



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PARTS LIST

FRONT PANEL (MIRROR BOX) & CORRECTION LEVER UNIT

前 板　　開口補正レバーユニット

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
ミラー	D	Y00-1288	1	Mirror Unit
ミラー	C	10-0239	1	Mirror
連絡レバー	D	13-1225	1	Connecting Lever
段ビス	D	13-1226	1	Screw
緊定レバー	C	13-1228	1	Shutter Release Lever
45°受けレバーホルダー	D	13-1230	1	Mirror Stopper Holder
遮光板	D	13-1238	1	Light Shield
遮光板	D	13-1239	1	Light Shield
追針	B	13-1317	1	Following Needle
ミラー軸	E	13-8275	1	Mirror Shaft
カラー	D	13-8277	2	Collar
ミラー調整板	E	13-8503	1	Mirror Adjusting Plate
段ビス	E	13-8504	1	Screw
遮光板	C	13-8540	1	Light Shield
モルトプレーン	D	13-8985	2	Light Shield
調整ビス	E	13-9019	1	Screw
開口補正レバーユニット	D	18-0457	1	Correction Lever Unit
遮光板	D	19-0285	1	Light Shield
みつまたレバー	D	19-0486	1	Shutter Release Lever
ミラー押上げレバー	E	19-0487	1	Swing Up Lever
45°受けレバー	D	19-0488	1	Mirror Stopper
メータースイッチレバー	D	19-0490	1	Meter Switch Lever
遮光板	D	19-0493	1	Light Shield
前板	E	19-0502	1	Front Panel (Mirror Box)
コイルスプリング	D	97-5596	1	Coil Spring
スプリング	E	97-6161	1	Spring
スプリング	D	97-6637	1	Spring
スプリング	D	97-6638	1	Spring
スプリング	D	97-6670	1	Spring
スプリング	D	97-6671	1	Spring
押えバネ	C	97-7518	2	Set Spring
板バネ	D	97-7585	1	Plate Spring
十字ナベビス		X16-170207	2	Screw
十字ナベビス		X16-170208	1	Screw
十字ナベビス		X16-170228	4	Screw
十字皿ビス		X18-170208	2	Screw
十字皿ビス		X18-170258	2	Screw
十字ナベビス		X26-140188	2	Screw
緊定ワッシャー		X32-401131	2	Retaining Washer
ワッシャー		X32-502130	2	Washer
ワッシャー		X32-502310 X32-502311 X32-502312	1	Washer
十字ナベビス		X96-172215	1	Screw
段ビス		X96-172218	1	Screw
段ビス		X96-172229	3	Screw
段ビス		X96-172230	2	Screw

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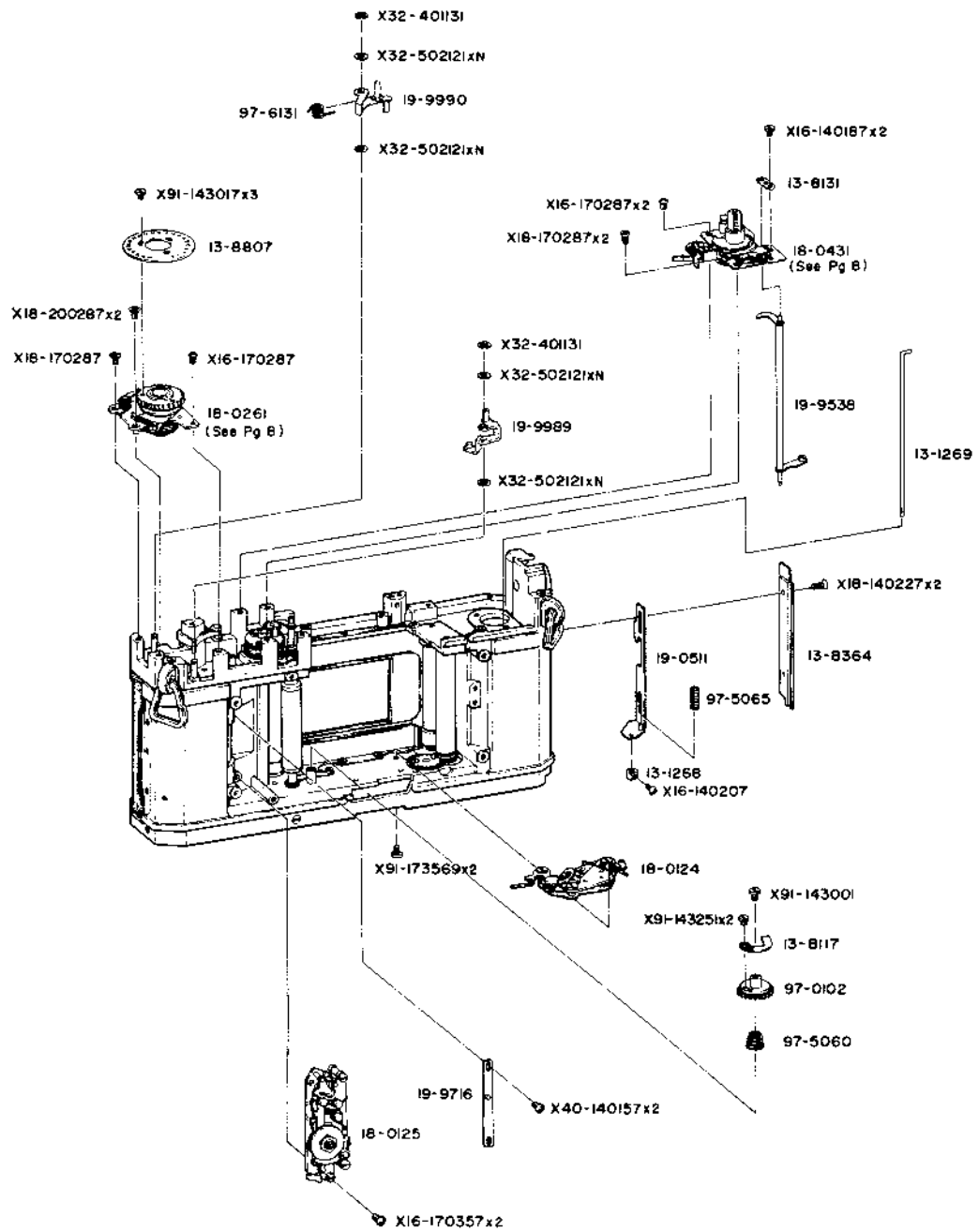
EXPLODED VIEW
of

CANON FTb, BLACK FTb



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PARTS LIST

SELF TIRER & SLOW SHUTTER GOVERNOR

セルフ タイマー　　スローガバナー

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
カラー	D	13-1268	1	Collar
ワイヤー	D	13-1269	1	Wire
スローー爪	E	13-8117	1	Slow Shutter Pawl
スローー棒受け	E	13-8131	1	Slow Shutter Link Holder
開閉爪カバー	E	13-8364	1	Cover Plate
枚数盤	D	13-8807	1	Film Counter
スローーガバナー	D	18-0124	1	Slow Shutter Governor
セルフタイマー	C	18-0125	1	Self Timer
枚数盤ユニット	D	18-0261	1	Film Counter Unit
シャッター棚板	D	18-0431	1	Shutter Speed Selector
開閉爪	C	19-0511	1	Hook
スローー棒	D	19-9538	1	Slow Shutter Link
セルフタイマー始動板	D	19-9716	1	Self Timer Starter
中間レバー	E	19-9989	1	Counter Connecting Lever
枚数盤戻しレバー	E	19-9990	1	Counter Reset Lever
スローーギヤー	D	97-0102	1	Slow Shutter Gear
コイルスプリング	D	97-5060	1	Coil Spring
コイルスプリング	D	97-5065	1	Coil Spring
スプリング	D	97-6131	1	Spring
十字ナベビス		X16-140187	2	Screw
十字ナベビス		X16-140207	1	Screw
十字ナベビス		X16-170287	3	Screw
十字ナベビス		X16-170357	2	Screw
十字皿ビス		X18-140227	2	Screw
十字皿ビス		X18-170287	3	Screw
十字皿ビス		X18-200287	2	Screw
緊定ワッシャー		X32-401131	2	Retaining Washer
調整ワッシャー		[X32-502121 X32-502122]	N	Adjusting Washer
十字ナベビス		X40-140157	2	Screw
平ビス		X91-143001	1	Screw
平ビス		X91-143017	3	Screw
平ビス		X91-143251	2	Screw
平ビス		X91-173569	2	Screw

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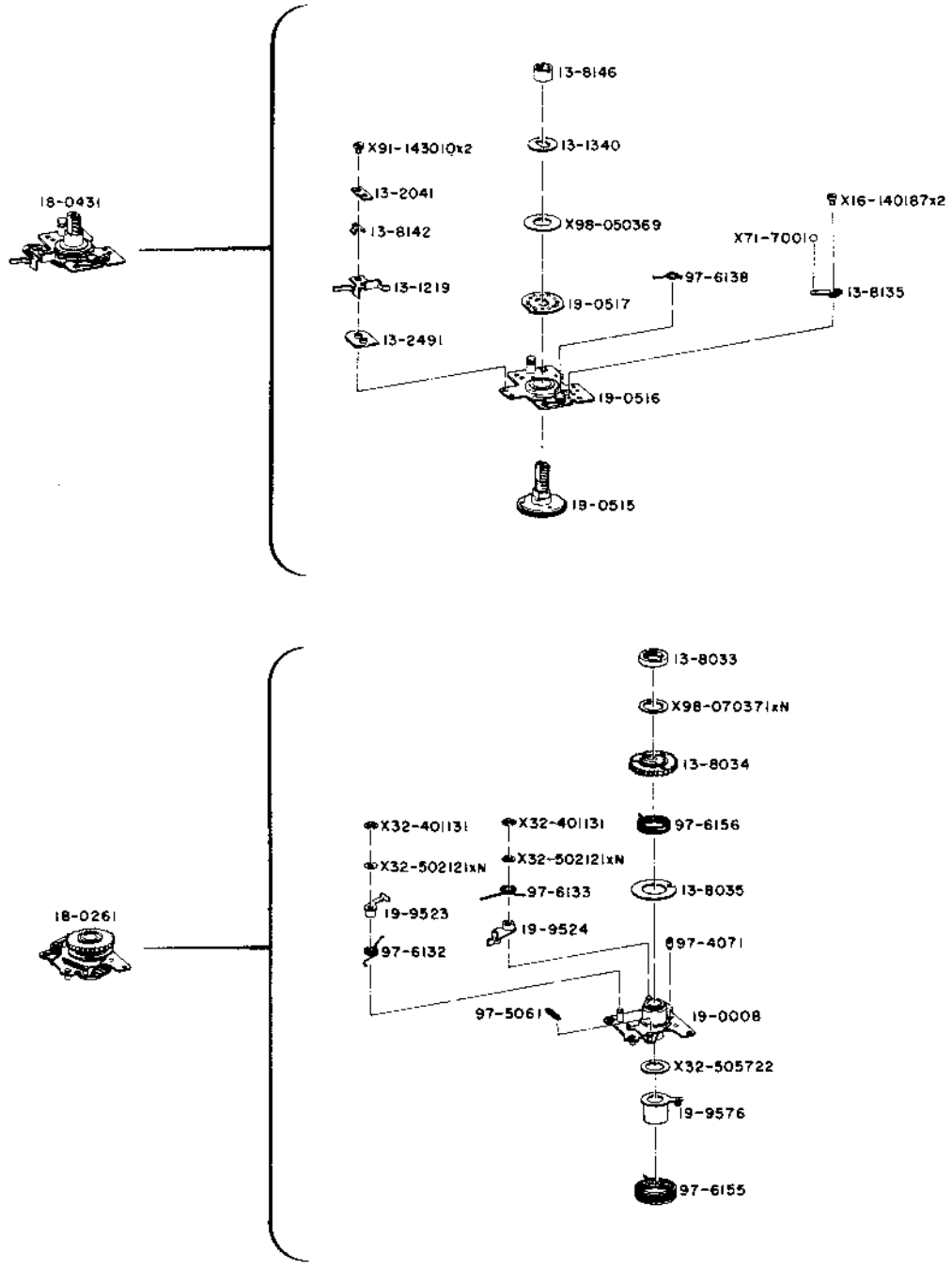
EXPLODED VIEW
of

CANON FTb, BLACK FTb



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PARTS LIST

FILM COUNTER UNIT & SHUTTER SPEED SELECTOR

枚数盤 ユニット　　シャッター棚板

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
X 接点	D	13-1219	1	X Contact
フラッシュカム	D	13-1340	1	Flash Cam
絶縁板	D	13-2041	1	Insulator
絶縁板	D	13-2491	1	Insulator
ナット	E	13-8033	1	Nut
ラチェットギヤー	E	13-8034	1	Film Counter Gear
ワッシャー	E	13-8035	1	Washer
クリックバネ	D	13-8135	1	Click Spring
ラグ板	D	13-8142	1	Lug
ナット	D	13-8146	1	Nut
枚数盤ユニット	D	18-0261	1	Film Counter Unit
シャッター棚板	D	18-0431	1	Shutter Speed Selector
枚数盤地板	E	19-0008	1	Film Counter Base
シャッタースピードカム	D	19-0515	1	Shutter Speed Cam
シャッター棚板	D	19-0516	1	Shutter Speed Selector Base
クリック板	D	19-0517	1	Click Disk
枚数盤ストッパー	E	19-9523	1	Stopper Claw
枚数盤送り爪	D	19-9524	1	Feeding Claw
カラー	E	19-9576	1	Collar
バネ掛けビス	E	97-4071	1	Screw
コイルスプリング	E	97-5061	1	Coil Spring
スプリング	E	97-6132	1	Spring
スプリング	E	97-6133	1	Spring
スプリング	D	97-6138	1	Spring
スプリング	E	97-6155	1	Spring
スプリング	E	97-6156	1	Spring
十字ナベビス		X16-140187	2	Screw
緊定ワッシャー		X32-401131	2	Retaining Washer
調整ワッシャー		X32-502121 X32-502122	N	Adjusting Washer
ワッシャー		X32-505722	N	Washer
スチールボール		X71-7001	1	Steel Ball
平ビス		X91-143010	2	Screw
ワッシャー		X98-050369	1	Washer
調整ワッシャー		X98-070370 X98-070371 X98-070372 X98-070373 X98-070374	N	Adjusting Washer

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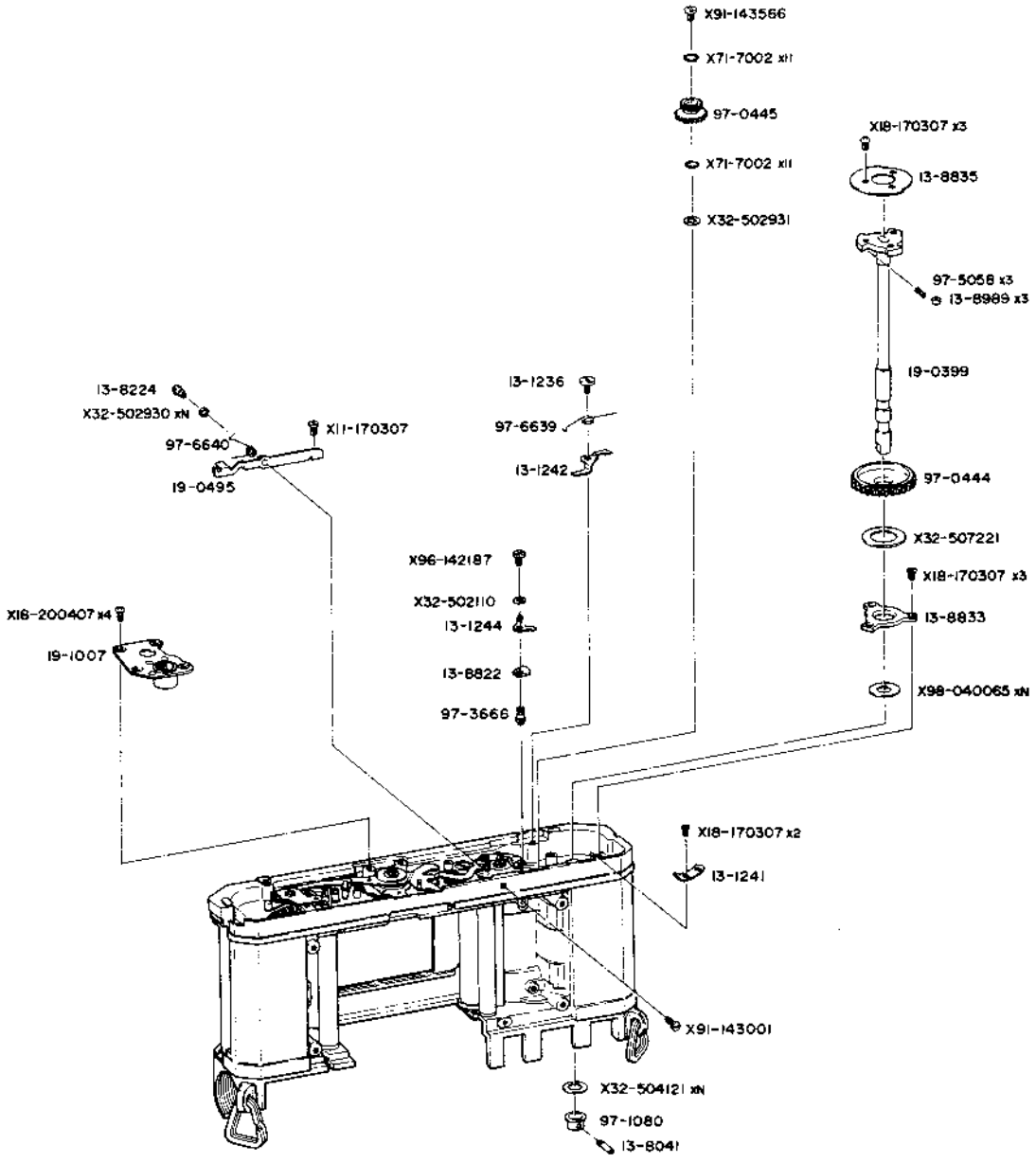
EXPLODED VIEW
of

CANON FTb, BLACK FTb



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WINDING SHAFT
巻き上げ軸

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
段ビス	D	13-1236	1	Screw
巻き上げストッパー	C	13-1241	1	Winding Stopper
巻き戻しクランプレバー	E	13-1242	1	Rewind Clamp Lever
緊定レバー	D	13-1244	1	Clutch Release Lever
ビス	D	13-8041	1	Screw
レリーズレバー軸	E	13-8224	1	Release Lever Shaft
ワッシャー	E	13-8822	1	Washer
巻き上げギヤーメタル	E	13-8833	1	Winding Gear Base
風車押え	D	13-8835	1	Cover Plate
ローラー	D	13-8989	3	Roller
巻き上げ軸	D	19-0399	1	Winding Shaft
プロペラレバー	E	19-0495	1	Release Lever
三脚取り付けネジ	D	19-1007	1	Tripod Socket
巻き上げギヤー	D	97-0444	1	Winding Gear
二段ギヤー	E	97-0445	1	Stop Gear
カラー	E	97-1080	1	Winding Collar
緊定レバー軸	D	97-3666	1	Clutch Release Lever Shaft
コイルスプリング	C	97-5058	3	Coil Spring
スプリング	D	97-6639	1	Spring
スプリング	D	97-6640	1	Spring
平ビス		X11-170307	1	Screw
十字皿ビス		X18-170307	8	Screw
十字皿ビス		X18-200407	4	Screw
ワッシャー		X32-502110	N	Washer
ワッシャー		X32-502930	N	Washer
ワッシャー		X32-502931	N	Washer
調整ワッシャー		X32-504121 X32-504122	N	Adjusting Washer
ワッシャー		X32-507221	1	Washer
スチールボール		X71-7002	22	Steel Ball
平ビス		X91-143001	1	Screw
平ビス		X91-143566	1	Screw
段ビス		X96-142187	1	Screw
ワッシャー		X98-040065	N	Washer

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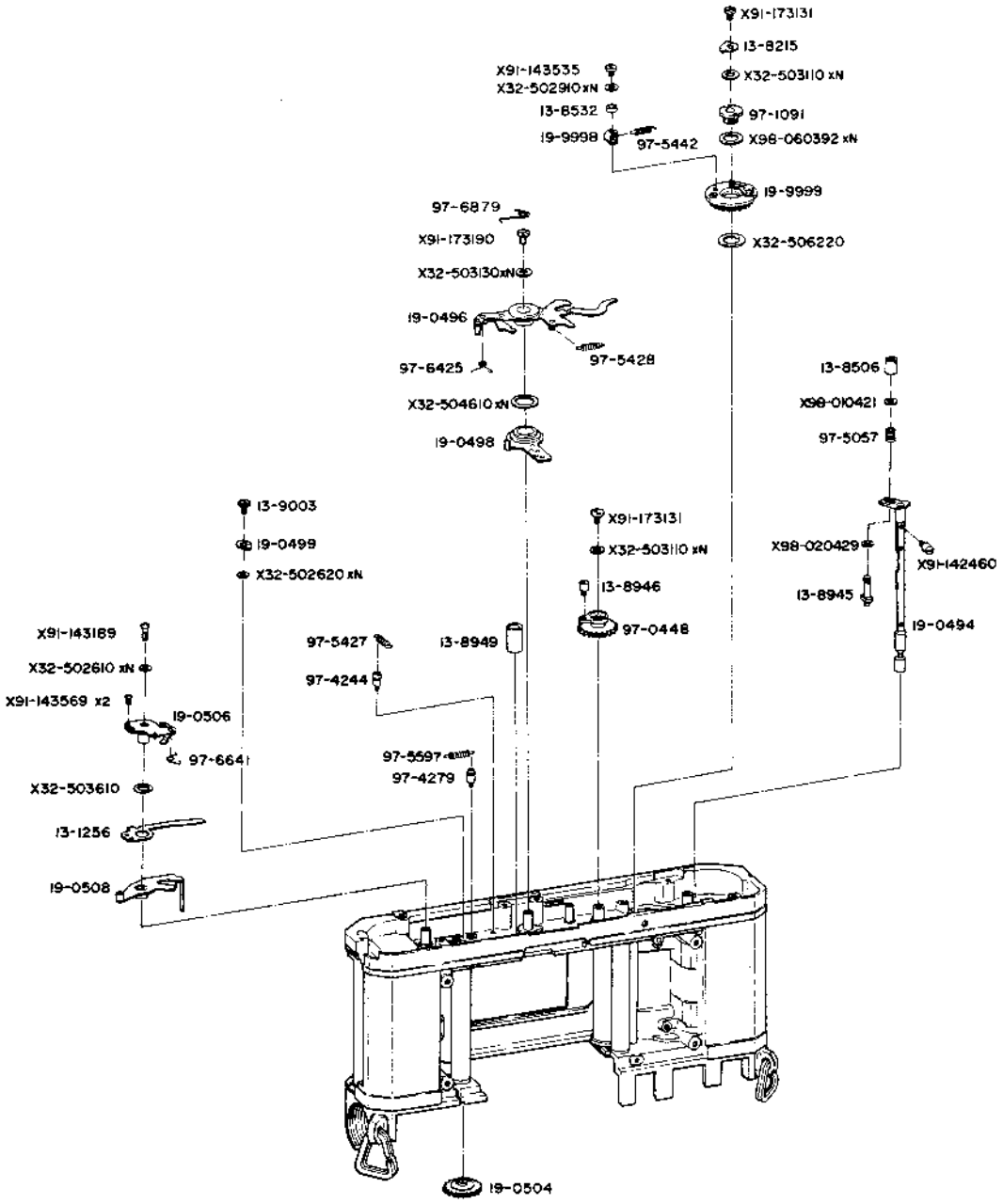
EXPLODED VIEW
of

CANON FTb, BLACK FTb



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PARTS LIST

DIAPHRAGM RELEASE LEVER & SHUTTER RELEASE SHAFT

蓄勢レバー　　シャッター レリーズ軸

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
ミラーチャージレバー	D	13-1256	1	Mirror Charge Lever
六の字	D	13-8215	1	Shutter Charge Pawl
ナット	D	13-8506	1	Nut
カラー	D	13-8532	1	Collar
シャッター軸ガイド	E	13-8945	1	Shutter Shaft Guide
ビス	D	13-8946	1	Screw
チューブ	E	13-8949	1	Tube
止めビス	E	13-9003	1	Screw
レリーズ棒	E	19-0494	1	Shutter Release Shaft
蓄勢レバー	D	19-0496	1	Diaphragm Release Lever
絞りレバー	D	19-0498	1	Diaphragm Release Lever
だるまレバー	E	19-0499	1	Diaphragm Reset Lever
ミラー戻しギヤー	D	19-0504	1	Mirror Reset Gear
ミラー駆動レバー	D	19-0506	1	Clamp Lever
ミラーチャージレバー	D	19-0508	1	Mirror Charge Lever
ブレーキレバー	D	19-9998	1	Brake Lever
シャッターチャージギヤー	D	19-9999	1	Shutter Charge Gear
チャージギヤー	E	97-0448	1	Charge Gear
押え環	D	97-1091	1	Assembly Collar
バネ掛けビス	E	97-4244	1	Screw
バネ掛けビス	E	97-4279	1	Screw
コイルスプリング	D	97-5057	1	Coil Spring
コイルスプリング	D	97-5427	1	Coil Spring
コイルスプリング	C	97-5428	1	Coil Spring
コイルスプリング	D	97-5442	1	Coil Spring
コイルスプリング	D	97-5597	1	Coil Spring
スプリング	D	97-6425	1	Spring
スプリング	D	97-6641	1	Spring
スプリング	D	97-6879	1	Spring
調整ワッシャー		X32-502610 X32-502611 X32-502612	N	Adjusting Washer
ワッシャー		X32-502620	N	Washer
ワッシャー		X32-502910	N	Washer
調整ワッシャー		X32-503110 X32-503111 X32-503112 X32-503113	N	Adjusting Washer
調整ワッシャー		X32-503130 X32-503131 X32-503132	N	Adjusting Washer
ワッシャー		X32-503610	N	Washer
調整ワッシャー		X32-504610 X32-504611 X32-504612	N	Adjusting Washer
ワッシャー		X32-506220	N	Washer
調整ビス		X91-142460 X91-143461	N	Adjusting Screw
平ビス		X91-143189	1	Screw
平ビス		X91-143535	1	Screw
平ビス		X91-143569	2	Screw
平ビス		X91-173131	2	Screw
平ビス		X91-173190	1	Screw
ワッシャー		X98-020429	1	Washer
ワッシャー		X98-060392	N	Washer

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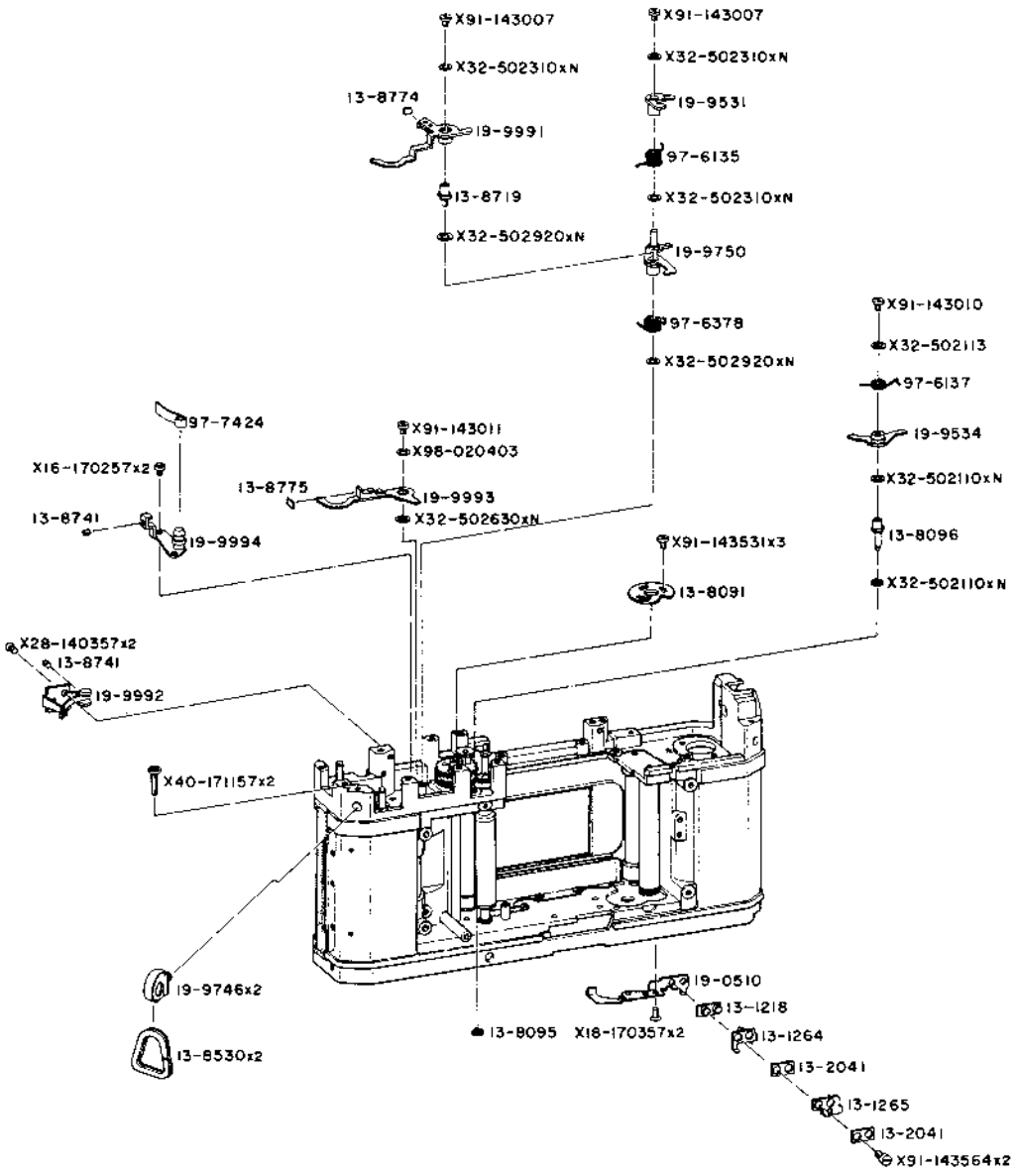
EXPLODED VIEW
of

CANON FTb, BLACK FTb



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PARTS LIST

SHUTTER BRAKE & RELEASE CAM

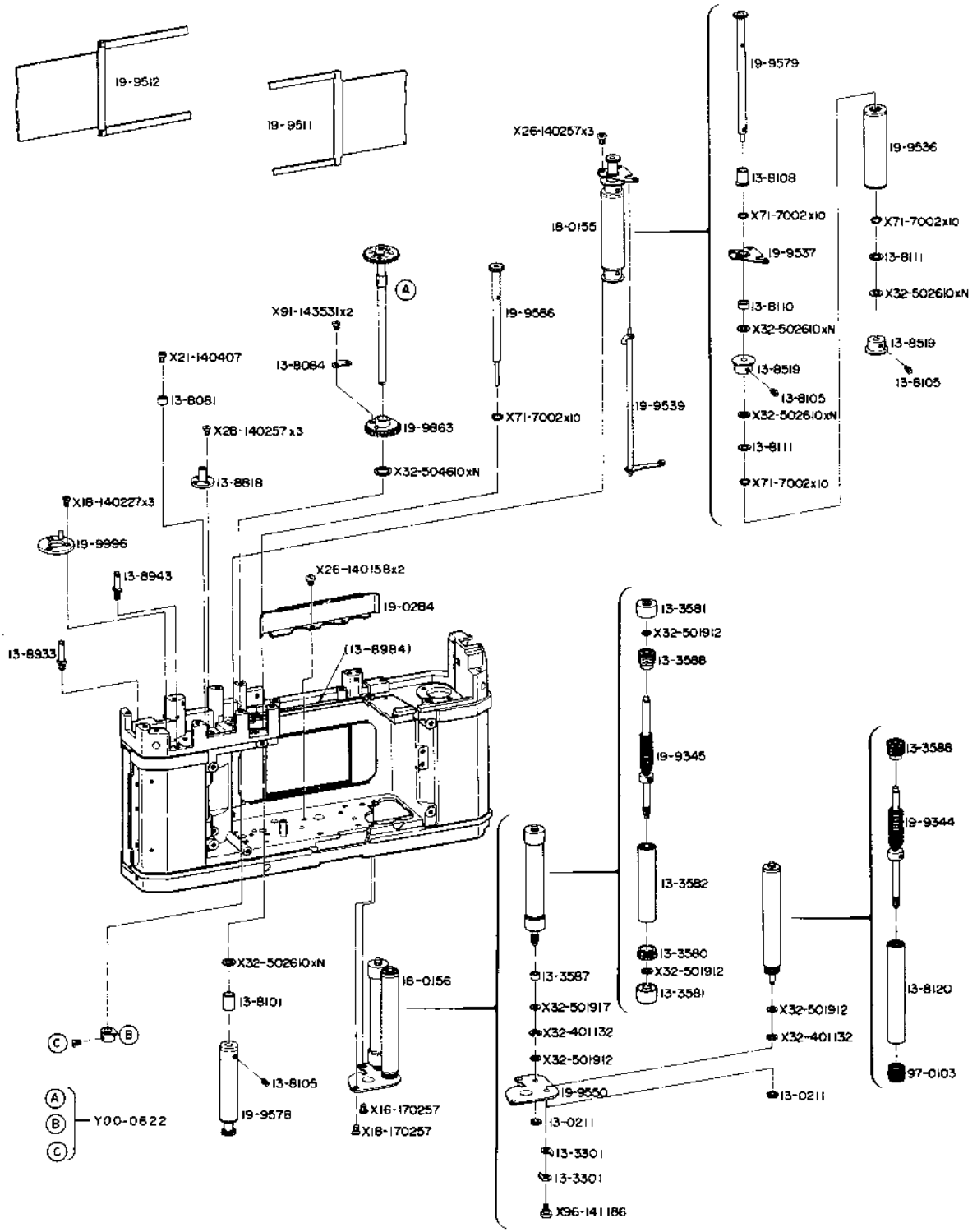
シヤッター ブレーキ　　けりカム

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
絶縁台	D	13-1218	1	Insulator Base
フラッシュ接片	D	13-1264	1	Flash Contact
フラッシュ接片	D	13-1265	1	Flash Contact
絶縁板	D	13-2041	2	Insulator
けりカム	E	13-8091	1	Release Cam
ナット	D	13-8095	1	Nut
レリーズレバー軸	E	13-8096	1	Release Lever Shaft
吊環	C	13-8530	2	Neck Strap Relation
先幕ブレーキ軸	D	13-8719	1	1st Curtain Brake Shaft
調整ビス	D	13-8741	2	Screw
鹿皮	B	13-8774	1	Brake Leather
鹿皮	B	13-8775	1	Brake Leather
後幕解除レバー	D	19-0510	1	2nd Curtain Release Lever
ふりこ	E	19-9531	1	2nd Curtain Release Lever
緊定レバー	D	19-9534	1	Shutter Release Lever
耳環	C	19-9746	2	Neck Strap Catch
カマ	D	19-9750	1	2nd Curtain Release Lever
先幕ブレーキ	E	19-9991	1	1st Curtain Brake
先幕ブレーキ地板	E	19-9992	1	1st Curtain Brake Base
後幕ブレーキ	E	19-9993	1	2nd Curtain Brake
後幕ブレーキ地板	E	19-9994	1	2nd Curtain Brake Base
スプリング	D	97-6135	1	Spring
スプリング	D	97-6137	1	Spring
スプリング	D	97-6378	1	Spring
ブレーキバネ	E	97-7424	1	Brake Band
十字ナベビス		X16-170257	2	Screw
十字皿ビス		X18-170357	2	Screw
十字皿ビス		X28-140357	2	Screw
調整ワッシャー		X32-502110 X32-502111 X32-502112 X32-502113	N	Adjusting Washer
調整ワッシャー		X32-502310 X32-502311 X32-502312	N	Adjusting Washer
ワッシャー		X32-502630	N	Washer
調整ワッシャー		X32-502920 X32-502921 X32-502922	N	Adjusting Washer
十字ナベビス		X40-171157	2	Screw
平ビス		X91-143007	2	Screw
平ビス		X91-143010	1	Screw
平ビス		X91-143011	1	Screw
平ビス		X91-143531	3	Screw
平ビス		X91-143564	2	Screw
ワッシャー		X98-020403	N	Washer

REF. NO. 1-20395
REF. NO. 1-20396

EXPLODED VIEW
of

CANON FTb, BLACK FTb



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PARTS LIST

1st CURTAIN DRUM & SPRING DRUM UNIT

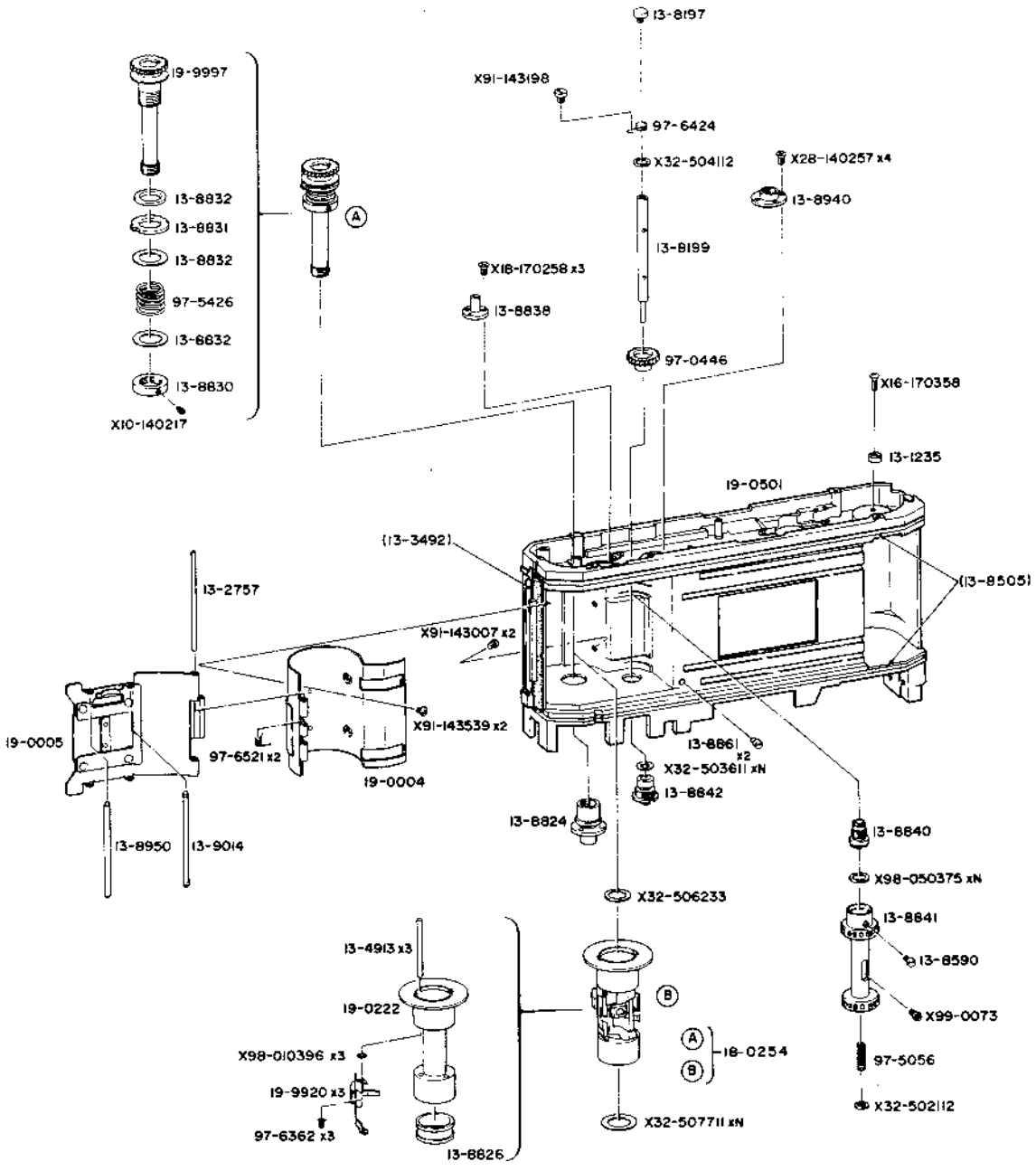
先幕ドラム　　スプリングドラムユニット

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
先幕ギヤー	E	Y00-0622	1	1st Curtain Gear
ナット	D	13-0211	2	Nut
爪	D	13-3301	2	Claw
ドラムキャップ	D	13-3580	1	Flange
ローラー	D	13-3581	2	Roller
先幕ドラム	D	13-3582	1	1st Curtain Drum
カラー	D	13-3587	1	Collar
ナット	D	13-3588	2	Nut
偏芯コロ	E	13-8081	1	Eccentric Collar
後幕フック	D	13-8084	1	2nd Curtain Hook
カラー	E	13-8101	1	Collar
セットビス	D	13-8105	3	Screw
カラー	D	13-8108	1	Collar
カラー	D	13-8110	1	Collar
ワッシャー	D	13-8111	2	Washer
後幕ドラム	E	13-8120	1	2nd Curtain Spring Drum
ドラムコロ	D	13-8519	2	Flange
ブレーキ軸	E	13-8818	1	Brake Shaft
戻しレバー軸	E	13-8933	1	Reset Lever Shaft
レバー軸	E	13-8943	1	Connecting Lever Shaft
モルトブレーン	D	13-8984	1	Light Shield
先幕ドラムユニット	D	18-0155	1	1st Curtain Drum
スプリングドラム	D	18-0156	1	Spring Drum Unit
遮光板	E	19-0284	1	Light Shield
後幕スプリング	D	19-9344	1	2nd Curtain Spring
先幕スプリング	D	19-9345	1	1st Curtain Spring
先幕	D	19-9511	1	1st Curtain
後幕	D	19-9512	1	2nd Curtain
先幕ドラム	D	19-9536	1	1st Curtain Drum
先幕ドラム地板	E	19-9537	1	1st Curtain Drum Base
アンクル軸	D	19-9539	1	Anchor Release Link
スプリング地板	E	19-9550	1	Curtain Spring Base
後幕ドラム	E	19-9578	1	2nd Curtain Drum
先幕ドラム軸	D	19-9579	1	1st Curtain Drum Shaft
後幕ドラム軸	E	19-9586	1	2nd Curtain Drum Shaft
後幕ギヤー	E	19-9863	1	2nd Curtain Gear
枚数盤カム	E	19-9996	1	Counter Cam
後幕スプリングギヤー	E	97-0103	1	2nd Curtain Spring Gear
十字ナベビス		X16-170257	1	Screw
十字皿ビス		X18-140227	3	Screw
十字皿ビス		X18-170257	1	Screw
平ビス		X21-140407	1	Screw
十字ナベビス		X26-140158	3	Screw
十字ナベビス		X26-140257	3	Screw
十字皿ビス		X28-140257	3	Screw
緊定ワッシャー		X32-401132	2	Retaining Washer
ワッシャー		X32-501912	4	Washer
ワッシャー		X32-501917	1	Washer
調整ワッシャー		X32-502610 X32-502611 X32-502612	N	Adjusting Washer
調整ワッシャー		X32-504610 X32-504611 X32-504612	N	Adjusting Washer
スチールボール		X71-7002	40	Steel Ball
平ビス		X91-143531	2	Screw
段ビス		X96-141186	1	Screw

REF. NO. 1-20395
REF. NO. 1-20396

EXPLODED VIEW
of

CANON FTb, BLACK FTb



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PARTS LIST

SPROCKET & TAKE UP SPOOL

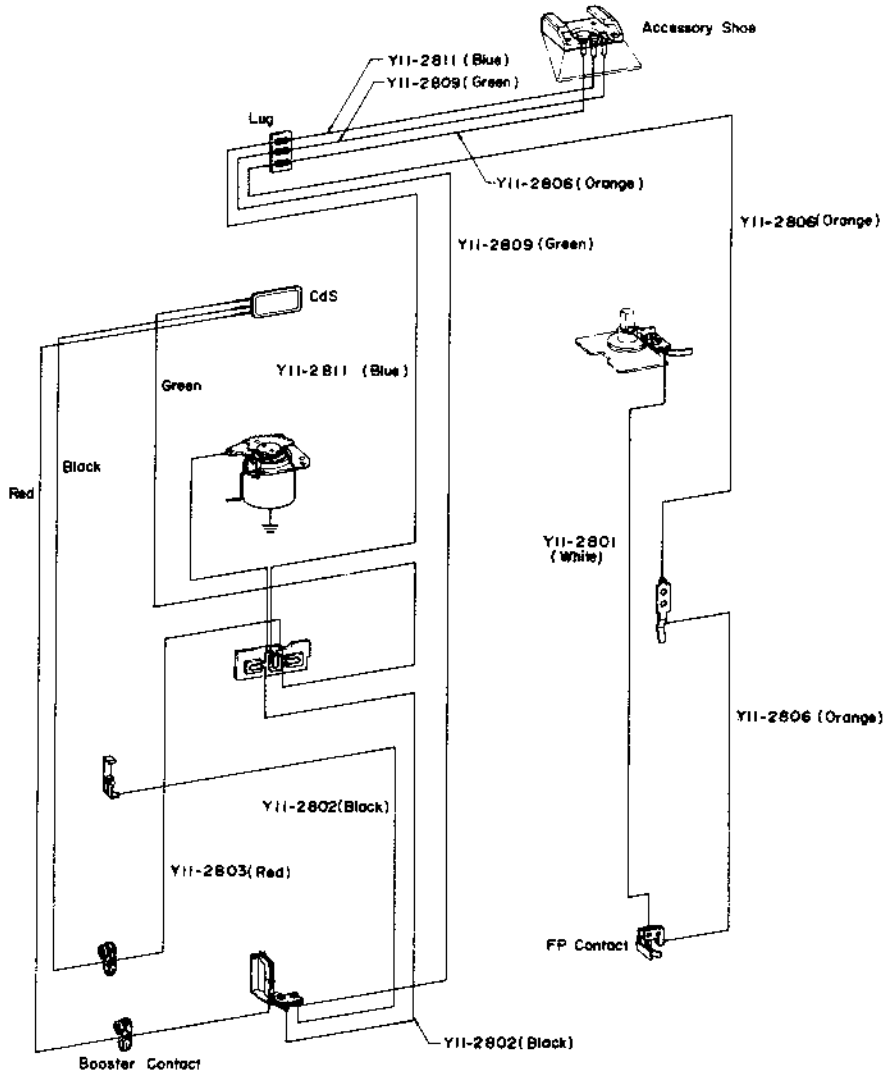
スプロケット　　巻取りスプール

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
エキセンカラー	D	13-1235	1	Eccentric Collar
蝶番軸	E	13-2757	1	Shaft of Hinge
遮光板	D	13-3492	1	Light Shield
水かき軸	E	13-4913	3	Shaft
巻き戻し釦	E	13-8197	1	Rewind Button
スプロケット軸	E	13-8199	1	Sprocket Shaft
遮光板	D	13-8505	2	Light Shield
平ビス	C	13-8590	1	Screw
スプール軸	E	13-8824	1	Spool Shaft
スプール受けメタル	E	13-8826	1	Spool Support Metal
ナット	D	13-8830	1	Nut
スペーサー	E	13-8831	1	Spacer
ファイバー	E	[13-8832(0.50) 13-8832(0.80) 13-8832(1.00)]	3	Fiber Washer
カッコ内の数字はワッシャーの厚さを示す（単位mm）				Number in Parenthesis indicates washer thickness in mm.
アイドルギヤー軸	E	13-8838	1	Idle Gear Shaft
スプロケットクラッチ	E	13-8840	1	Sprocket Clutch
スプロケット	E	13-8841	1	Sprocket
スプロケット軸受け	E	13-8842	1	Sprocket Bushing
フィルムガイドビス	D	13-8861	2	Film Guide Screw
巻き上げギヤー軸受け	E	13-8940	1	Winding Gear Bushing
ローラー	D	13-8950	1	Roller
ローラー	D	13-9014	1	Roller
巻取りスプール	D	18-0254	1	Take Up Spool Unit
スプロケットカバー	C	19-0004	1	Sprocket Cover
中ぶた	C	19-0005	1	Inner Cover
巻き取りスプール	E	19-0222	1	Take Up Spool
本体	E	19-0501	1	Body
水かき	E	19-9920	3	Friction Rubber
巻き取りスプール軸	E	19-9997	1	Take Up Spool Shaft
スプロケットギヤー	E	97-0446	1	Sprocket Gear
コイルスプリング	E	97-5056	1	Coil Spring
コイルスプリング	E	97-5426	1	Coil Spring
スプリング	E	97-6362	3	Spring
スプリング	D	97-6424	1	Spring
スプリング	D	97-6521	2	Spring
止めビス		X10-140217	1	Screw
十字皿ビス		X16-170358	1	Screw
十字皿ビス		X18-170258	3	Screw
十字皿ビス		X28-140257	4	Screw
ワッシャー		X32-502112	1	Washer
調整ワッシャー		[X32-503611 X32-503612]	N	Adjusting Washer
ワッシャー		X32-504112	1	Washer
ワッシャー		X32-506233	1	Washer
調整ワッシャー		[X32-507711 X32-507712]	N	Adjusting Washer
平ビス		X91-143007	2	Screw
平ビス		X91-143198	1	Screw
平ビス		X91-143539	2	Screw
ワッシャー		X98-010396	3	Washer
調整ワッシャー		[X98-050375 X98-050376]	N	Adjusting Washer
平ビス		X99-0073	1	Screw

REF. NO. 1-20395
REF. NO. 1-20396

EXPLODED VIEW
of

CANON FTb, BLACK FTb



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CANON REPAIR MANUAL

CANON FTb-N
(REF. NO. 1-20398)

CANON BLACK FTb-N
(REF. NO. 1-20399)

CANON INC. JAPAN

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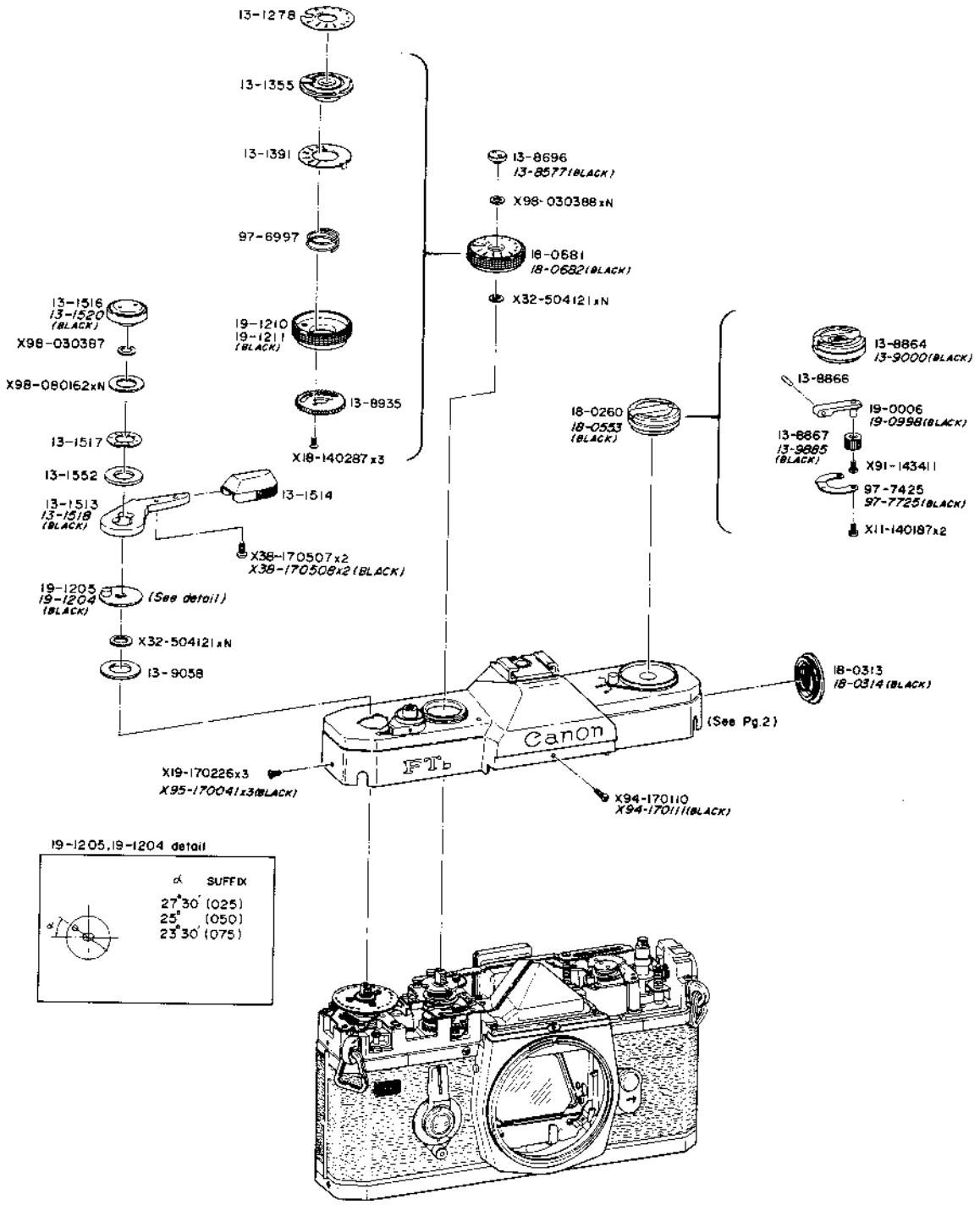
EXPLODED VIEW
of
CANON FTb-N, BLACK FTb-N



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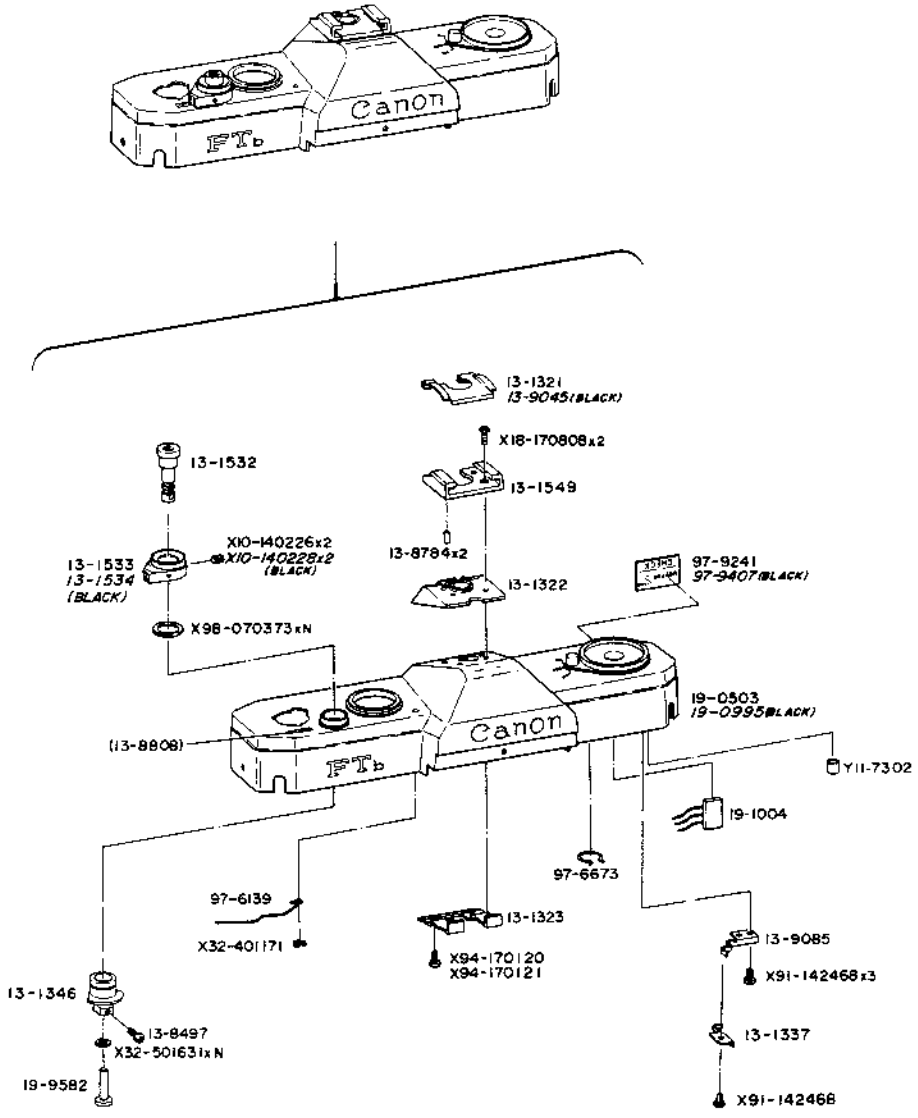
PARTS LIST

SHUTTE SPEED DIAL & REWIND CRANK
シャッターダイヤル　巻き戻しクランク

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
シャッター文字盤	D	13-1278	1	Shutter Speed Dial
シャッター文字盤受け	D	13-1355	1	Shutter Speed Dial Holder
ASA盤	C	13-1391	1	ASA Dial
巻き上げレバー	D	13-1513	1	Winding Lever
指あて	C	13-1514	1	Winding Lever Tip
ナット	C	13-1516	1	Nut
スプリングワッシャー	D	13-1517	1	Spring Washer
巻き上げレバー	D	13-1518	1	Winding Lever
ナット	C	13-1520	1	Nut
ワッシャー	D	13-1552	1	Washer
カニ目ビス	C	13-8577	1	Pin Face Screw
カニ目ビス	C	13-8696	1	Pin Face Screw
巻き戻しクランクつまみ	E	13-8864	1	Rewind Crank Knob
蝶番軸	E	13-8866	1	Pivot
つまみ	E	13-8867	1	Rewind Knob
ASAセット盤	E	13-8935	1	ASA Setting Disk
巻き戻しクランクつまみ	E	13-9000	1	Rewind Crank Knob
スペーサー	D	13-9058	1	Spacer
つまみ	E	13-9885	1	Rewind Knob
巻き戻しクランクユニット	D	18-0260	1	Rewind Crank Unit
電池室ふた	C	18-0313	1	Battery Cover
電池室ふた	C	18-0314	1	Battery Cover
巻き戻しクランクユニット	D	18-0553	1	Rewind Crank Unit
シャッターダイヤルユニット	C	18-0681	1	Shutter Speed Dial
シャッターダイヤルユニット	C	18-0682	1	Shutter Speed Dial
巻き戻しクランク	D	19-0006	1	Rewind Crank
巻き戻しクランク	D	19-0998	1	Rewind Crank
巻き上げレバー座	D	19-1204(XXX)	1	Winding Lever Seat
分解図を参照，部品オーダー時は（XXX）の中にSUFFIXを入れる事.				Enter suffix when ordering, See detail.
巻き上げレバー座	D	19-1205(XXX)	1	Winding Lever Seat
分解図を参照，部品オーダー時は（XXX）の中にSUFFIXを入れる事.				Enter suffix when ordering, See detail.
シャッターダイヤルつまみ	C	19-1210	1	Knurled Knob
シャッターダイヤルつまみ	C	19-1211	1	Knurled Knob
コイルスプリング	D	97-6997	1	Coil Spring
クリックスプリング	D	97-7425	1	Click Spring
クリックスプリング	D	97-7725	1	Click Spring
平ビス		X11-140187	2	Screw
十字皿ビス		X18-140287	3	Screw
十字丸皿ビス		X19-170226	3	Screw
調整ワッシャー		X32-504121 X32-504122	N	Adjusting Washer
十字皿ビス		X38-170507	2	Screw
十字皿ビス		X38-170508	2	Screw
平ビス		X91-143411	1	Screw
皿ビス		X94-170110	1	Screw
皿ビス		X94-170111	1	Screw
丸皿ビス		X95-170041	3	Screw
ワッシャー		X98-030387 X98-030431	1	Washer
ワッシャー		X98-030388	1	Washer
調整ワッシャー		X98-080162	N	Adjusting Washer

REF. NO. 1-20398
REF. NO. 1-20399

EXPLODED VIEW
of
CANON FTb-N, BLACK FTb-N



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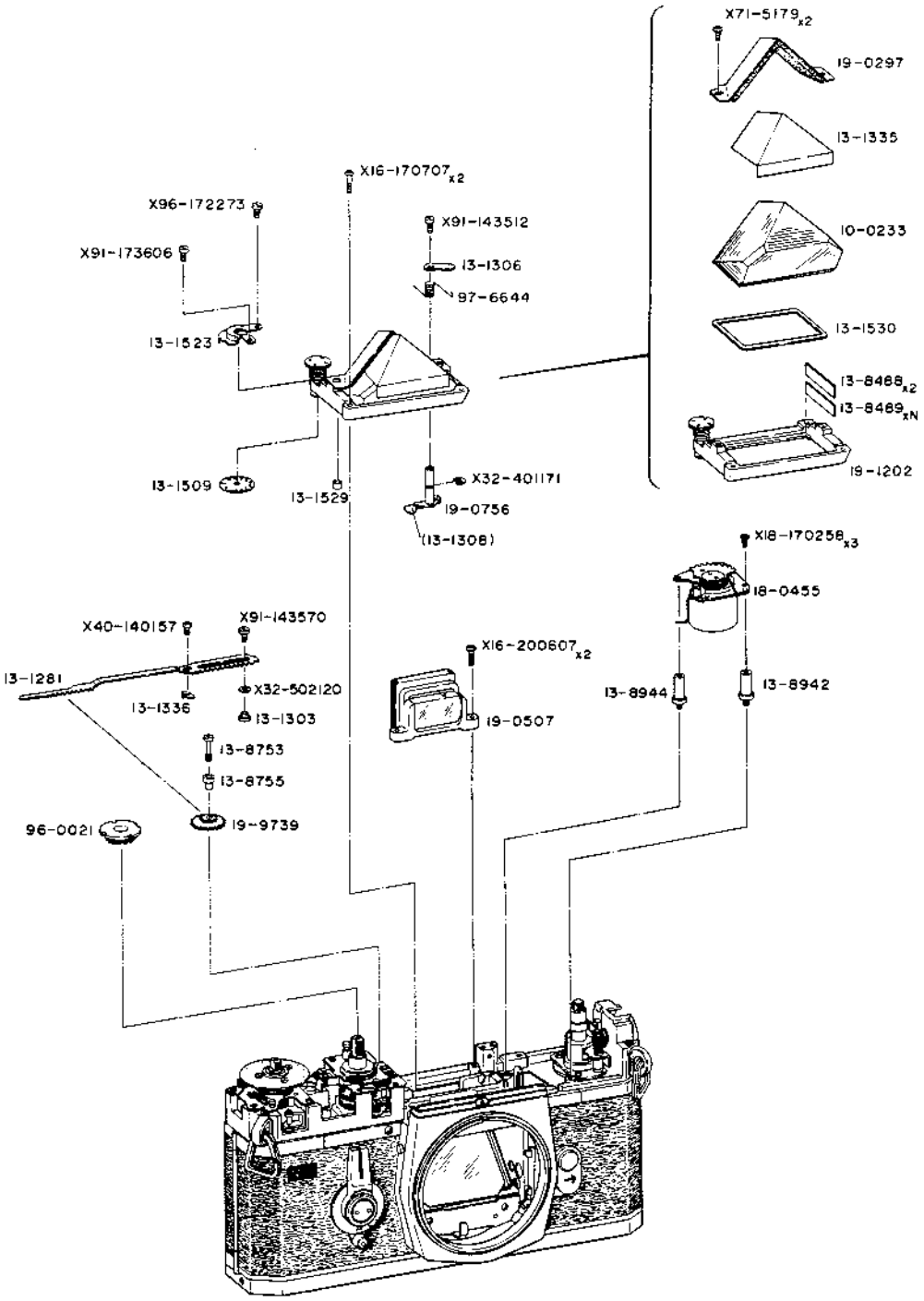
TOP COVER
上部カバー

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
板バネ	C	13-1321	1	Plate Spring
アクセサリーシュー台	D	13-1322	1	Accessory Shoe Base
アクセサリーシュー止め板	D	13-1323	1	Shoe Rest Base
補助バネ	D	13-1337	1	Click Spring
シャッター釦受け	D	13-1346	1	Shutter Button Sleeve
シャッター釦	D	13-1532	1	Shutter Button
シャッター釦ロック	D	13-1533	1	Shutter Button Lock
シャッター釦ロック	D	13-1534	1	Shutter Button Lock
アクセサリーシュー	D	13-1549	1	Accessory Shoe
ガイドビス	D	13-8497	1	Suide Screw
ストッパーピン	D	13-8784	2	Stopper Pin
枚数盤窓	D	13-8808	1	Film Counter Window
板バネ	C	13-9045	1	Plate Spring
クリック板	D	13-9085	1	Click Plate
上部カバー	C	19-0503	1	Top Cover
上部カバー	C	19-0995	1	Top Cover
ラグ板	C	19-1004	1	Lug
シャッター釦軸	D	19-9582	1	Shutter Button Shaft
スプリング	D	97-6139	1	Spring
スプリング	D	97-6673	1	Spring
チェッカー指示板	C	97-9241	1	Battery Checker Indicator
チェッカー指示板	C	97-9407	1	Battery Checker Indicator
止めビス		X10-140226	2	Screw
止めビス		X10-140228	2	Screw
十字皿ビス		X18-170808	2	Screw
緊定ワッシャー		X32-401171	1	Retaining Washer
ワッシャー		X32-501631	N	Washer
平ビス		X91-142468	4	Screw
皿ビス		X94-170120	2	Screw
皿ビス		X94-170121	2	Screw
調整ワッシャー		X98-070370 X98-070371 X98-070372 X98-070373 X98-070374	N	Adjusting Washer
住チューブ		Y11-7302		Head Shrinkable Tube

REF. NO. 1-20398
REF. NO. 1-20399

EXPLODED VIEW
of
CANON FTb-N, BLACK FTb-N



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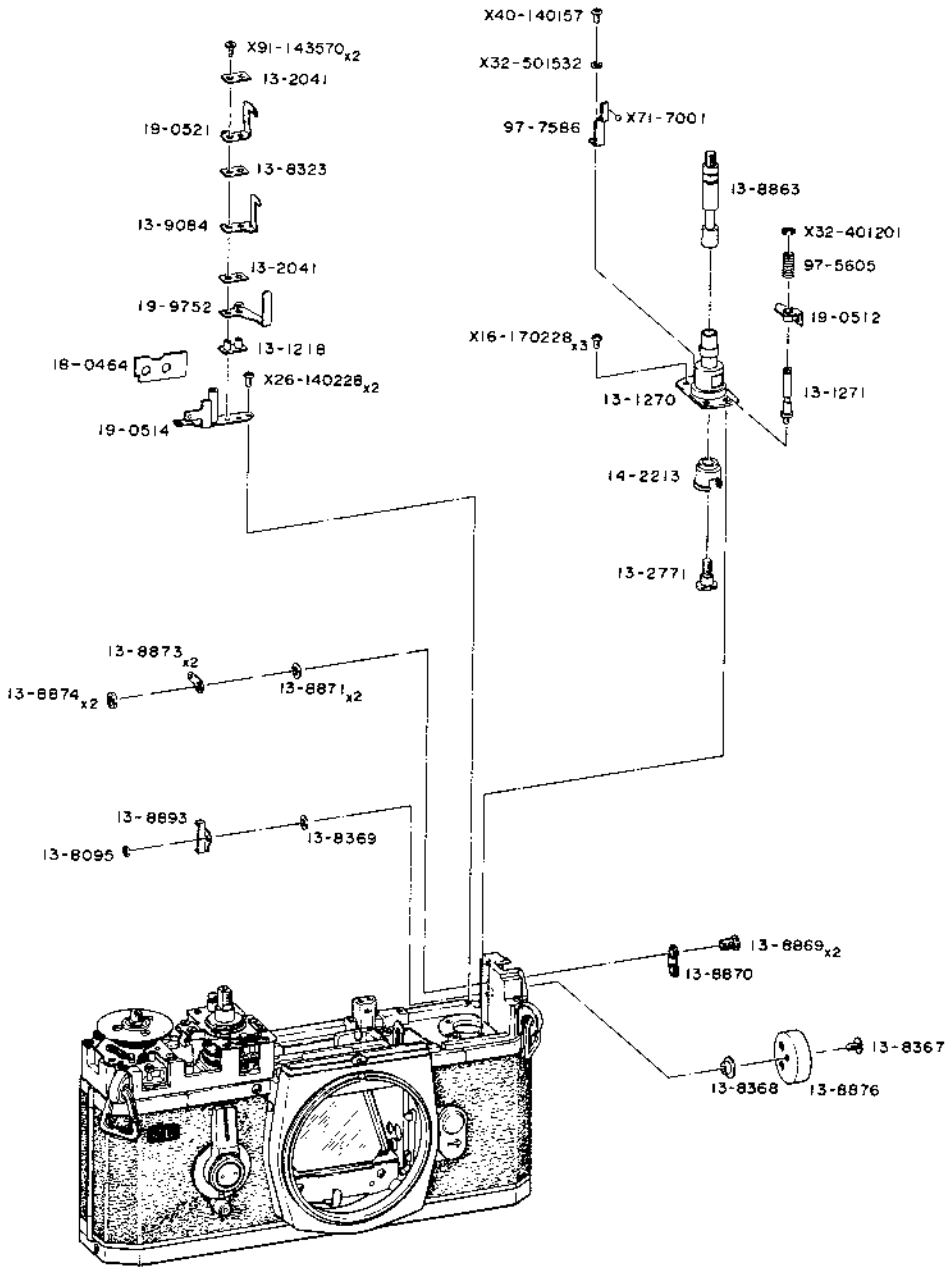
PARTS LIST

PENTAPRISM & METER UNIT
ペンタプリズム　メーターユニット

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
ペンタプリズム	C	10-0233	1	Pentaprism
メーターセットカム	C	13-1281	1	Meter Set Cam
カラー	D	13-1303	1	Collar
警告レバー	D	13-1306	1	Warning Lever
警告マーク	C	13-1308	1	Warning Mark
ペンタプリズムカバー	C	13-1335	1	Pentaprism Cover
ナット	D	13-1336	1	Nut
シャッター速度標示盤	C	13-1509	1	Shutter Speed Index
ダストカバー	D	13-1523	1	Dust Cover
カラー	D	13-1529	1	Collar
マスク	D	13-1530	1	Mask
スペーサー	D	13-8488	2	Spacer
スペーサー	C	13-8489	N	Spacer
ピニオン軸	E	13-8753	1	Pinion Shaft
カラー	D	13-8755	1	Collar
メーター取り付け柱	E	13-8942	1	Meter Support
メーター取り付け柱	E	13-8944	1	Meter Support
メーターユニット	C	18-0455	1	Meter Unit
ペンタプリズム押え	D	19-0297	1	Pentaprism Holder
アイピース	D	19-0507	1	Eyepiece
警告レバー	D	19-0756	1	Warning Lever
ペンタプリズムボックス	E	19-1202	1	Pentaprism Box
アイドルギヤー	D	19-9739	1	Idle Gear
連動ギヤー	C	96-0021	1	Caupling Gear
スプリング	D	97-6644	1	Spring
十字ナベビス		X16-170707	2	Screw
十字ナベビス		X16-200607	2	Screw
十字皿ビス		X18-170258	3	Screw
緊定ワッシャー		X32-401171	1	Retaining Washer
ワッシャー		X32-502120	1	Washer
十字ナベビス		X40-140157	1	Screw
十字ナベビス		X71-5179	2	Screw
平ビス		X91-143512	1	Screw
平ビス		X91-143570	1	Screw
平ビス		X91-173606	1	Screw
段ビス		X96-172273	1	Screw

REF. NO. 1-20398
REF. NO. 1-20399

EXPLODED VIEW
of
CANON FTb-N, BLACK FTb-N



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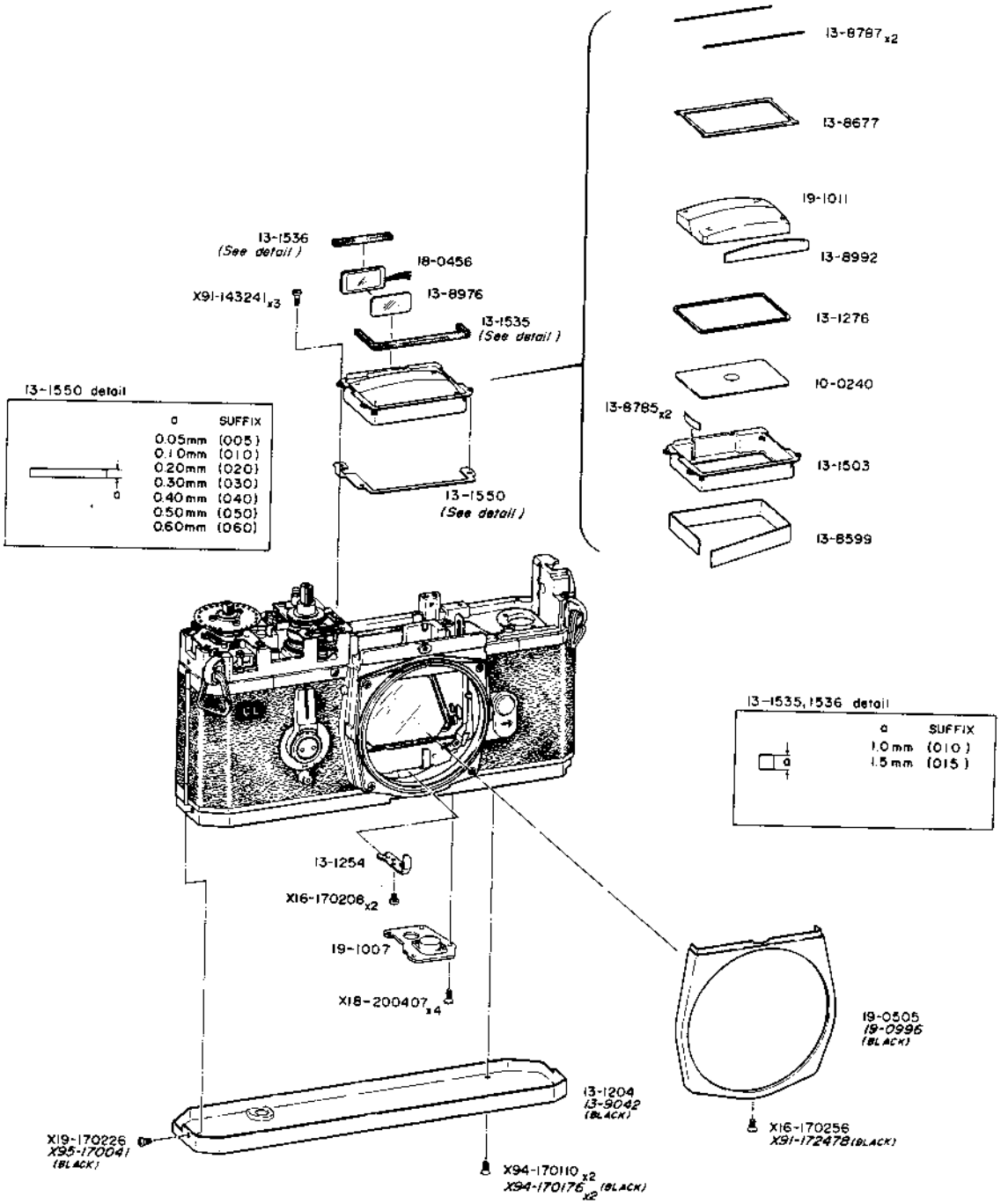
PARTS LIST

METER SWITCH & REWIND HOLDER
メータースイッチ　巻き戻し軸受け

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
絶縁台	D	13-1218	1	Insulator Base
巻き戻し軸受け	D	13-1270	1	Rewind Shaft Holder
開閉レバー軸	D	13-1271	1	Stud
絶縁板	D	13-2041	2	Insulator
巻き戻しフォーク軸	D	13-2771	1	Rewind Fork Shaft
ナット	D	13-8095	1	Nut
絶縁板	D	13-8323	1	Insulator
平ビス	D	13-8367	1	Screw
絶縁板	D	13-8368	1	Insulator
絶縁板	D	13-8369	1	Insulator
巻き戻し軸	D	13-8863	1	Rewind Shaft
ブースターソケット	D	13-8869	2	Booster Contact
絶縁板	D	13-8870	1	Insulator
絶縁板	D	13-8871	2	Insulator
ラグ板	D	13-8873	2	Lug
ナット	D	13-8874	2	Nut
電池室	D	13-8876	1	Battery Case
チェッカー接片	D	13-8893	1	Checker Contact
接片	D	13-9084	1	Contact
巻き戻しフォーク	C	14-2213	1	Rewind Fork
半固定抵抗ユニット	C	18-0464	1	Variable Resistor Unit
開閉レバー	C	19-0512	1	Opening Lever
メーター取り付け地板	D	19-0514	1	Meter Support Base
メーター接片	D	19-0521	1	Meter Contact
チェッカー接片	D	19-9752	1	Checker Contact
コイルスプリング	D	97-5605	1	Coil Spring
クリックスプリング	D	97-7586	1	Click Spring
十字ナベビス		X16-170228	3	Screw
十字ナベビス		X26-140228	2	Screw
緊定ワッシャー		X32-401201	1	Retaining Washer
調整ワッシャー		X32-501531 X32-501532 X32-501533	1	Adjusting Washer
十字ナベビス		X40-140157	1	Screw
スチールボール		X71-7001	1	Steel Ball
平ビス		X91-143570	2	Screw

REF. NO. 1-20398
REF. NO. 1-20399

EXPLODED VIEW
of
CANON FTb-N, BLACK FTb-N



SCALE 1-2.0

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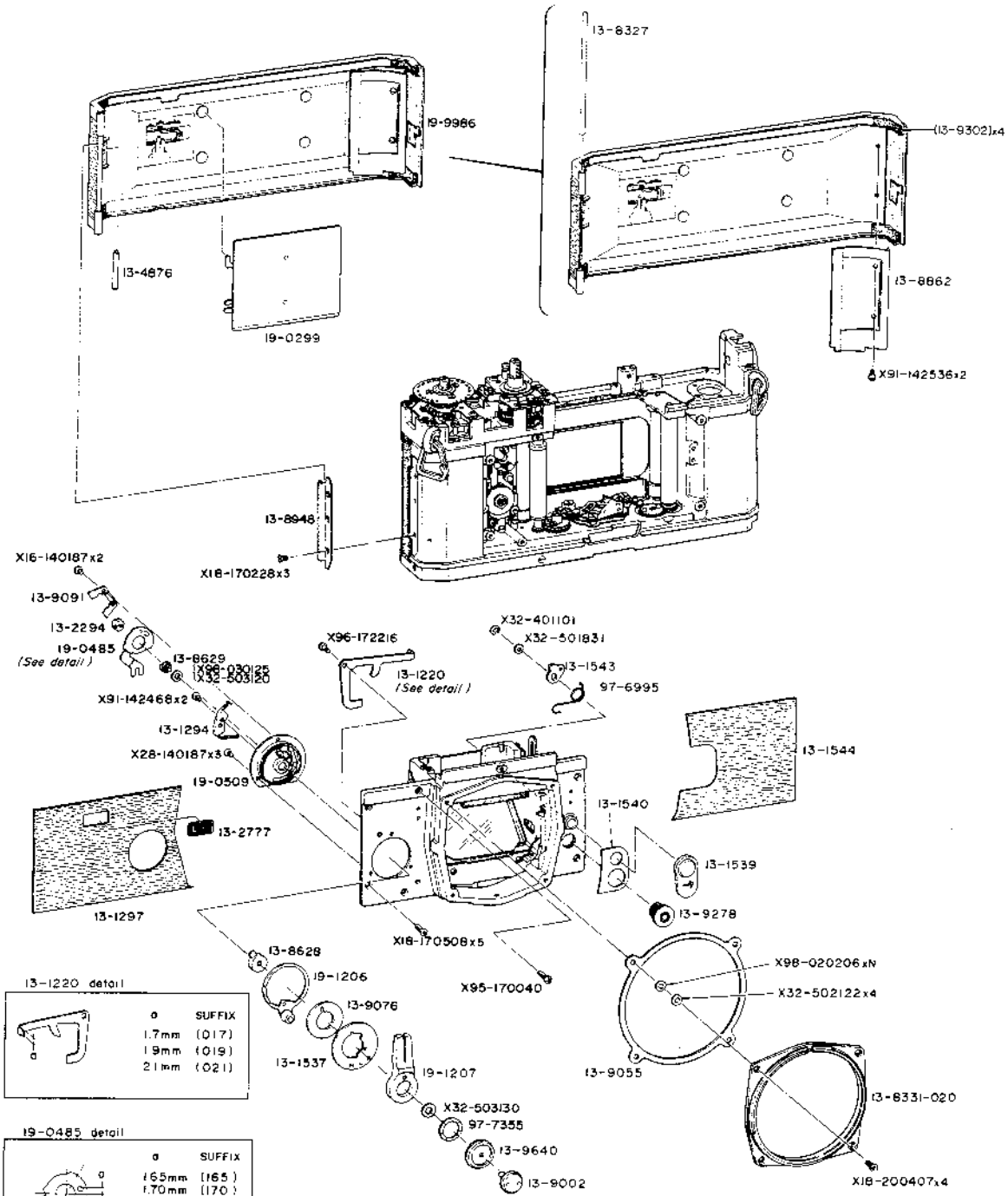
FOCUSING SCREEN
フォーカシング スクリーン

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
フォーカシングスクリーン	C	10-0240	1	Focusing Screen
下部カバー	C	13-1204	1	Base Cover
絞りたたきレバー	D	13-1254	1	Diaphragm Release Lever
マスク	D	13-1276	1	Mask
コンデンサーボックス	E	13-1503	1	Condenser Lens Box
モルトプレーン	D	13-1535(XXX)	1	Light Shield
分解図を参照，部品オーダー時は（XXX）の中にSUFFIXを入れる事。			Enter suffix when ordering, See detail.	
モルトプレーン	D	13-1536(XXX)	1	Light Shield
分解図を参照，部品オーダー時は（XXX）の中にSUFFIXを入れる事。			Enter suffix when ordering, See detail.	
調整ワッシャー	C	13-1550(XXX)	N	Adjusting Washer
分解図を参照，部品オーダー時は（XXX）の中にSUFFIXを入れる事。			Enter suffix when ordering, See detail.	
ビニールテープ	C	13-8599	1	Vinyl Tape
マスク	D	13-8677	1	Mask
板バネ	D	13-8785	2	Plate Spring
スプリングピン	C	13-8787	2	Spring Pin
NDフィルター	D	13-8976(60.0) 13-8976(65.0) 〜 13-8976(90.0) 13-8976(95.0)	N	ND Filter
CdS感度の調整に使用する。 （）内の数字は透過率を示す。 （単位 %）				Used to adjust CdS Sensitivity. The number in parenthesis indicates the transmission percentage.
遮光板	E	13-8992	1	Light Shield
下部カバー	C	13-9042	1	Base Cover
CdSユニット	C	18-0456	1	CdS Unit
エプロン	C	19-0505	1	Front Cover
エプロン	C	19-0996	1	Front Cover
三脚取り付けネジ	D	19-1007	1	Tipod Socket
コンデンサーレンズ	C	19-1011	1	Condenser Lens
十字ナベビス		X16-170208	2	Screw
十字ナベビス		X16-170256	1	Screw
十字皿ビス		X18-200407	4	Screw
十字丸皿ビス		X19-170226	1	Screw
平ビス		X91-143241	3	Screw
平ビス		X91-172478	1	Screw
皿ビス		X94-170110	2	Screw
皿ビス		X94-170176	2	Screw
丸皿ビス		X95-170041	1	Screw

REF. NO. 1-20398
REF. NO. 1-20399

EXPLODED VIEW
of
CANON FTb-N, BLACK FTb-N



13-1220 detail

a	SUFFIX
1.7mm	(017)
1.9mm	(019)
2.1mm	(021)

19-0485 detail

a	SUFFIX
1.65mm	(165)
1.70mm	(170)
1.75mm	(175)
1.80mm	(180)
1.85mm	(185)

SCALE 1-2.0

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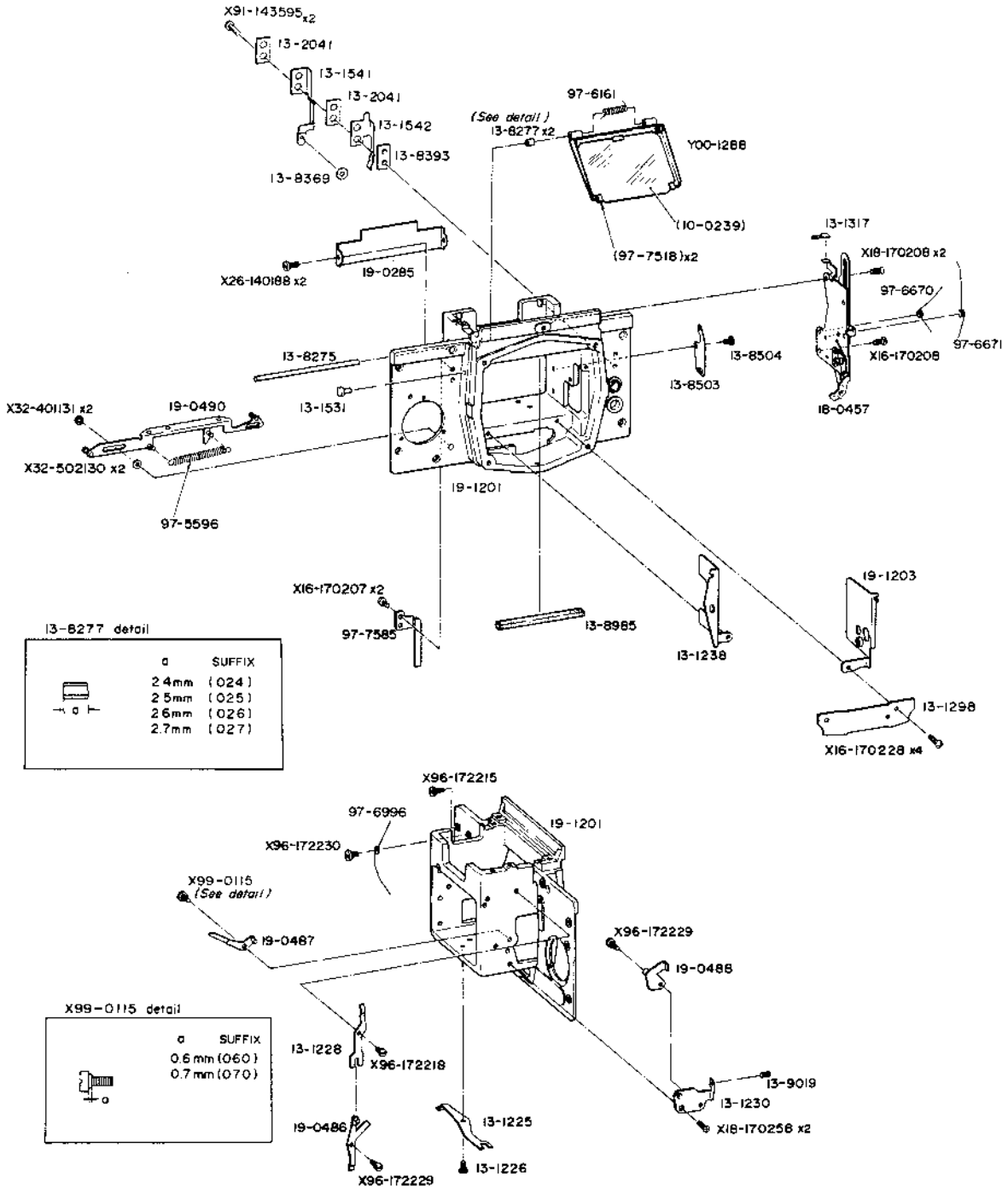
SELF TIMER LEVER & BACIC COVER
セルフタイマーレバー　　裏ぶた

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
ミラークランプレバー	D	13-1220(XXX)	1	Mirror Clamp Lever
分解図を参照，部品オーダー時は（XXX）の中にSUFFIXを入れる事.				Enter suffix when ordering, See detail.
キャッチャースプリング	C	13-1294	1	Catcher Spring
レザー	B	13-1297	1	Leather
指標板	C	13-1537	1	Index Plate
シンクロターミナルカバー	C	13-1539	1	Flash Terminal Cover
化粧板	C	13-1540	1	Cover Plate
カム	D	13-1543	1	Cam
レザー	B	13-1544	1	Leather
ジョイント	C	13-2294	1	Coupling Joint
QLマーク	D	13-2777	1	QL Mark
蝶番軸	E	13-4876	1	Hinge Shaftge
蝶番軸	D	13-8327	1	Hinge Shaftge
マウント（001）は調整用で（000）より0.3mm薄い。	D	[13-8331-020(000)] [13-8331-020(001)]	1	Lens Mount Lens Mount with dimensional suffix (001) is 0.3mm thinner than standard Lens Mount 13-8331-020 (000).
チャージリング	D	13-8628	1	Self Timer Charge Ring
角ジョイント	E	13-8629	1	Coupling Ring
パトローネ押え	E	13-8862	1	Cassette Holder
蝶番	E	13-8948	1	Hinge
オニ目ビス	C	13-9002	1	Pin Face Screw
ワッシャー	D	13-9055	1	Washer
スペーサー	C	13-9076	1	Spacer
ストッパー	D	13-9091	1	Stopper
遮光板	C	13-9302	4	Light Shield
セルフタイマー指標	D	13-9640	1	Self Timer Index
圧着板	C	19-0299	1	Pressure Plate
フォークレバー	C	19-0485(XXX)	1	Fork Lever
分解図を参照，部品オーダー時は（XXX）の中にSUFFIXを入れる事.				Enter suffix when ordering, See detail.
セルフレバー受け	D	19-0509	1	Lever Holder
ロックレバー	D	19-1206	1	Lock Lever
セルフタイマーレバー	C	19-1207	1	Self Timer Lever
フラッシュターミナル	D	19-9278	1	Flash Terminal
裏ぶたユニット	D	19-9986	1	Back Cover Unit
スプリング	D	97-6995	1	Spring
板バネ	D	97-7355	1	Plate Spring
十字ナベビス		X16-140187	2	Screw
十字皿ビス		X18-170228	3	Screw
十字皿ビス		X18-170508	5	Screw
十字皿ビス		X18-200407	4	Screw
十字皿ビス		X28-140187	3	Screw
緊定ワッシャー		X32-401101	1	Retaining Washer
ワッシャー		[X32-501831] [X32-501832]	1	Washer
ワッシャー		X32-502122	4	Washer
ワッシャー		X32-503120	N	Washer
調整ワッシャー		[X32-503130] [X32-503131]	N	Adjusting Washer
平ビス		X91-142468	2	Screw
平ビス		X91-142536	2	Screw
丸皿ビス		X95-170040	1	Screw
段ビス		X96-172216	1	Screw
ワッシャー		X98-020206	N	Washer
ワッシャー		X98-030125	N	Washer

REF. NO. 1-20398
REF. NO. 1-20399

EXPLODED VIEW
of
CANON FTb-N, BLACK FTb-N



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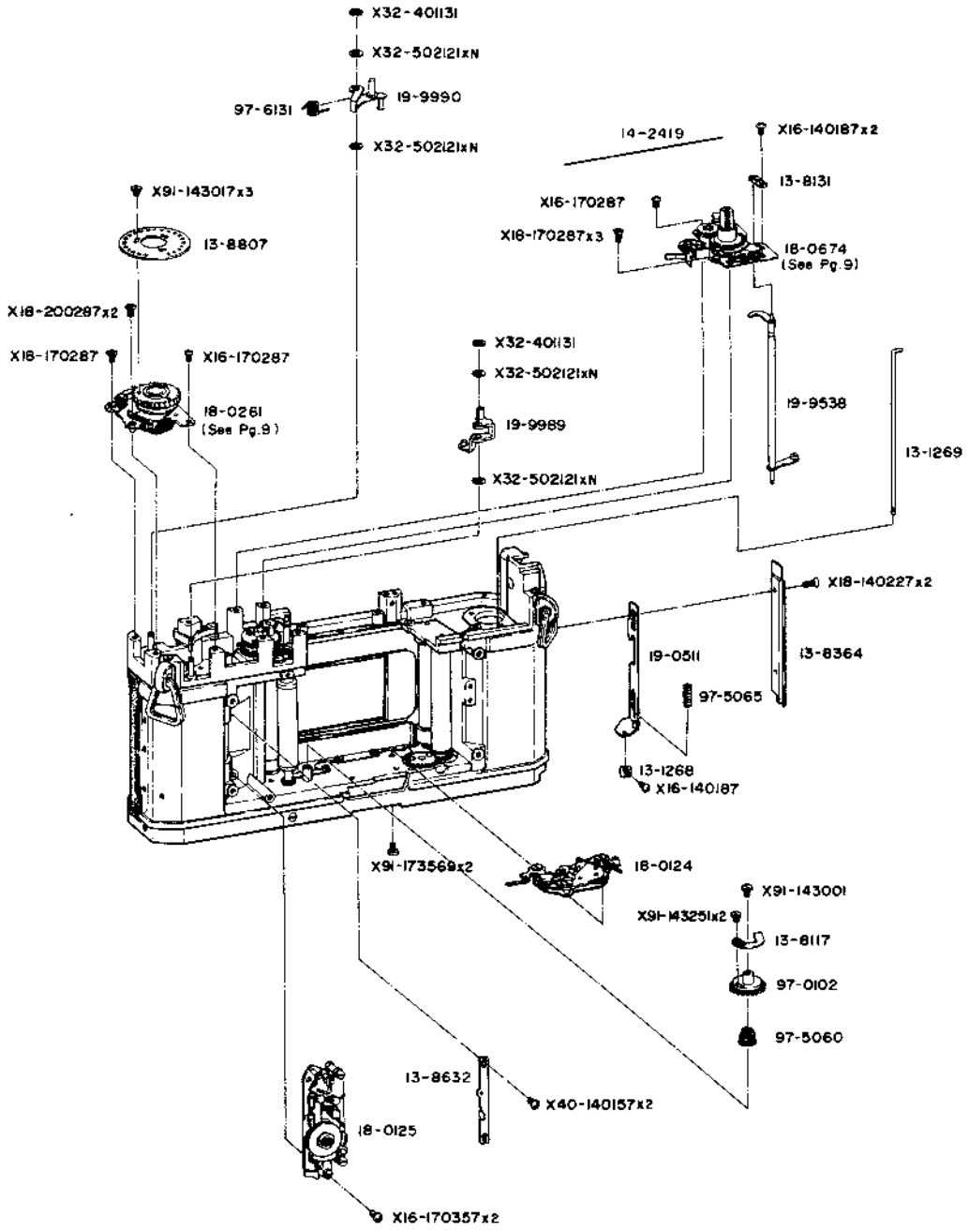
FRONT PANEL (MIRROR BOX)
前　　板

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
ミラー	D	Y00-1288	1	Mirror Unit
ミラー	C	10-0239	1	Mirror
連絡レバー	D	13-1225	1	Connecting Lever
段ビス	D	13-1226	1	Screw
緊定レバー	C	13-1228	1	Shutter Release Lever
45°受けレバーホルダー	D	13-1230	1	Mirror Stopper Holder
遮光板	D	13-1238	1	Light Shield
遮光板	D	13-1298	1	Light Shield
追針	B	13-1317	1	Following Needle
ストッパー	D	13-1531	1	Stopper
ターミナル接片	D	13-1541	1	Flash Terminal Contact
アース接片	D	13-1542	1	Earth Contact
絶縁板	D	13-2041	2	Insulator
ミラー軸	E	13-8275	1	Mirror Shaft
カラー	D	13-8277(XXX)	2	Collar
分解図を参照，部品オーダー時は(XXX)の中にSUFFIXを入れる事. Enter suffix when ordering, See detail.				
カラー	D	13-8369	1	Collar
絶縁板	D	13-8393	1	Insulator
ミラー調整板	E	13-8503	1	Mirror Adjusting Plate
段ビス	E	13-8504	1	Screw
モルトプレーン	D	13-8985	2	Light Shield
調整ビス	E	13-9019	1	Screw
開口補正レバーユニット	D	18-0457	1	Correcting Lever Unit
遮光板	D	19-0285	1	Light Shield
みつまたレバー	D	19-0486	1	Shutter Release Lever
ミラー押上げレバー	E	19-0487	1	Swing Up Lever
45°受けレバー	D	19-0488	1	Mirror Stopper
メータースイッチレバー	D	19-0490	1	Meter Switch Lever
前板	E	19-1201	1	Front Panel (Mirror Box)
遮光板	D	19-1203	1	Light Shield
コイルスプリング	D	97-5596	1	Coil Spring
スプリング	E	97-6161	1	Spring
スプリング	D	97-6670	1	Spring
スプリング	D	97-6671	1	Spring
スプリング	D	97-6996	1	Spring
押えバネ	C	97-7518	2	Set Spring
板バネ	D	97-7585	1	Plate Spring
十字ナベビス		X16-170207	2	Screw
十字ナベビス		X16-170208	1	Screw
十字ナベビス		X16-170228	4	Screw
十字皿ビス		X18-170208	2	Screw
十字皿ビス		X18-170258	2	Screw
十字ナベビス		X26-140188	2	Screw
緊定ワッシャー		X32-401131	2	Retaining Washer
ワッシャー		X32-502130	2	Washer
平ビス		X91-143595	2	Screw
段ビス		X96-172215	1	Screw
段ビス		X96-172218	1	Screw
段ビス		X96-172229	2	Screw
段ビス		X96-172230	1	Screw
段ビス		X99-0115(XXX)	1	Screw
分解図を参照，部品オーダー時は(XXX)の中にSUFFIXを入れる事. Enter suffix when ordering, See detail.				

REF. NO. 1-20398
REF. NO. 1-20399

EXPLODED VIEW
of
CANON FTb-N, BLACK FTb-N



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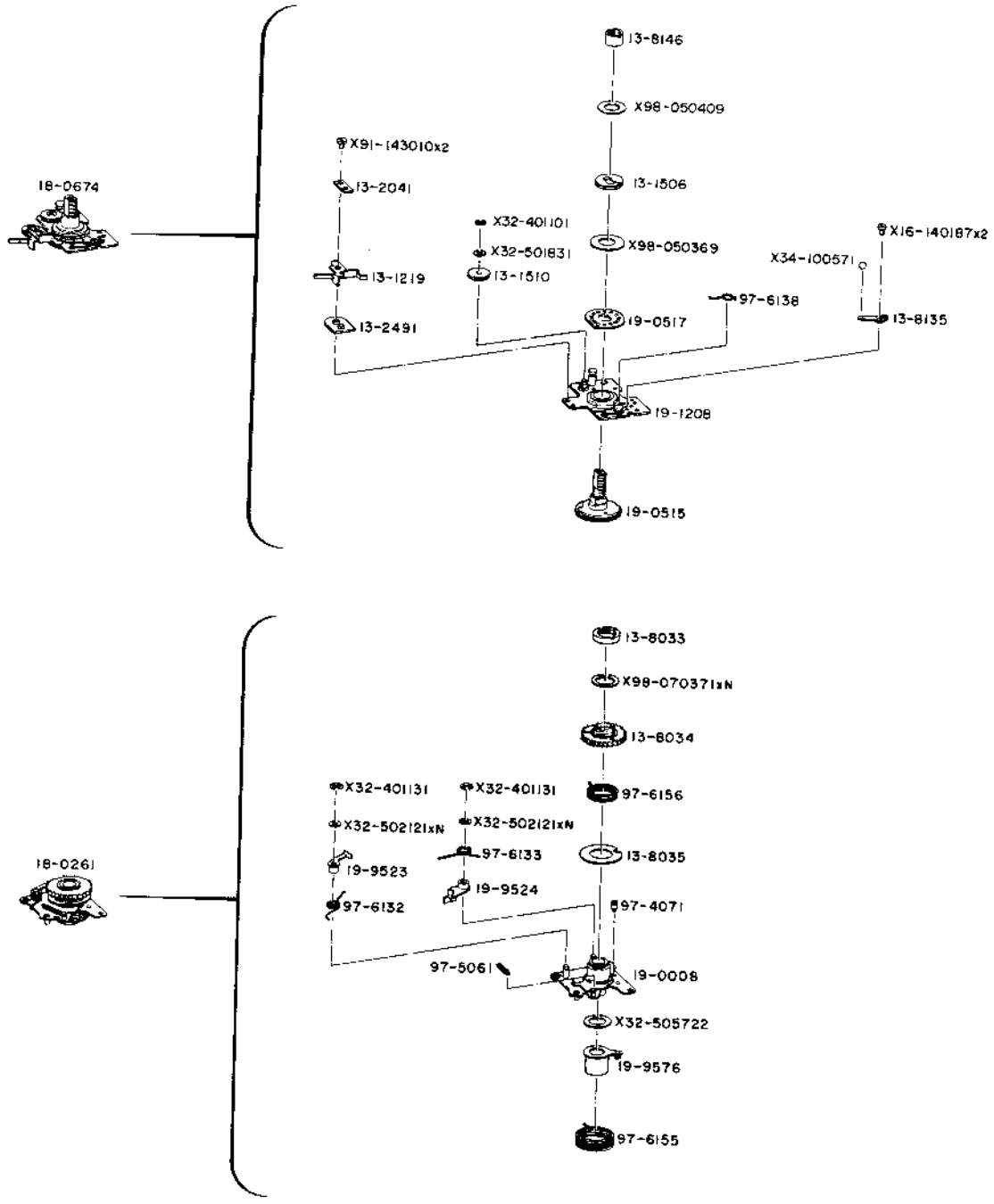
PARTS LIST

SELF TIMER & SLOW SHUTTER GOVERNOR
セルフタイマー　　スローガバナー

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
カラー	D	13-1268	1	Collar
ワイヤー	D	13-1269	1	Wire
スロー爪	E	13-8117	1	Slow Shutter Pawl
スロー棒受け	E	13-8131	1	Slow Shutter Link Holder
開閉爪カバー	E	13-8364	1	Cover Plate
セルフタイマー始動板	D	13-8632	1	Self Timer Starter
枚数盤	D	13-8807	1	Film Counter
ワイヤー	C	14-2419	1	Wire
スローガバナー	D	18-0124	1	Slow Shutter Governor
セルフタイマー	C	18-0125	1	Self Timer
枚数盤ユニット	D	18-0261	1	Film Counter Unit
シャッター棚板	D	18-0674	1	Shutter Speed Selector
開閉爪	C	19-0511	1	Hook
スロー棒	D	19-9538	1	Slow Shutter Link
中間レバー	E	19-9989	1	Counter Connecting Lever
枚数盤戻しレバー	E	19-9990	1	Counter Reset Lever
スローギヤー	D	97-0102	1	Slow Shutter Gear
コイルスプリング	D	97-5060	1	Coil Spring
コイルスプリング	D	97-5065	1	Coil Spring
スプリング	D	97-6131	1	Spring
十字ナベビス		X16-140187	3	Screw
十字ナベビス		X16-170287	2	Screw
十字ナベビス		X16-170357	2	Screw
十字皿ビス		X18-140227	2	Screw
十字皿ビス		X18-170287	4	Screw
十字皿ビス		X18-200287	2	Screw
緊定ワッシャー		X32-401131	2	Retaining Washer
調整ワッシャー		[X32-502121 X32-502122]	N	Adjusting Washer
十字ナベビス		X40-140157	2	Screw
平ビス		X91-143001	1	Screw
平ビス		X91-143017	3	Screw
平ビス		X91-143251	2	Screw
平ビス		X91-173569	2	Screw

REF. NO. 1-20398
REF. NO. 1-20399

EXPLODED VIEW
of
CANON FTb-N, BLACK FTb-N



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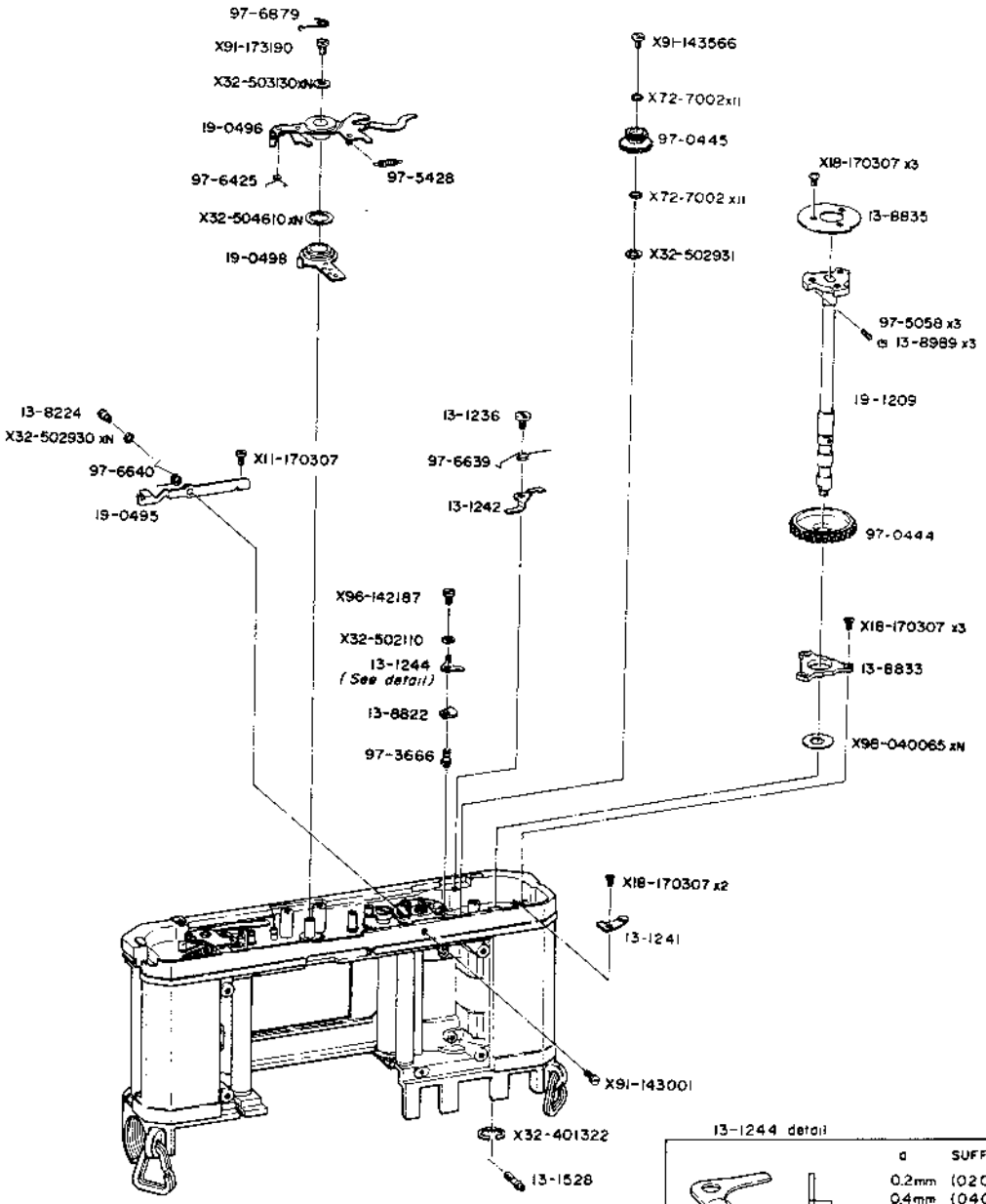
FILM COUNTER UNIT & SHUTTER SPEED SELECTOR

枚数盤ユニット　　シャッター棚板

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
X接点	D	13-1219	1	X Contact
プーリー	D	13-1506	1	Pulley
プーリー	D	13-1510	1	Pulley
絶縁板	D	13-2041	1	Insulator
絶縁板	D	13-2491	1	Insulator
ナット	E	13-8033	1	Nut
ラチェットギヤー	E	13-8034	1	Film Counter Gear
ワッシャー	E	13-8035	1	Washer
クリックバネ	D	13-8135	1	Click Spring
ナット	D	13-8146	1	Nut
枚数盤ユニット	D	18-0261	1	Film Counter Unit
シャッター棚板	D	18-0674	1	Shutter Speed Selector
枚数板地板	E	19-0008	1	Film Counter Base
シャッタースピードカム	D	19-0515	1	Shutter Speed Cam
クリック盤	D	19-0517	1	Click Disk
シャッター棚板	D	19-1208	1	Shutter Speed Selector Base
枚数盤ストッパー	E	19-9523	1	Stopper Claw
枚数盤送り爪	D	19-9524	1	Feeding Claw
カラー	E	19-9576	1	Collar
バネ掛けビス	E	97-4071	1	Screw
コイルスプリング	E	97-5061	1	Coil Spring
スプリング	E	97-6132	1	Spring
スプリング	E	97-6133	1	Spring
スプリング	D	97-6138	1	Spring
スプリング	E	97-6155	1	Spring
スプリング	E	97-6156	1	Spring
十字ナベビス	E	X16-140187	2	Screw
緊定ワッシャー		X32-401101	1	Retaining Washer
緊定ワッシャー		X32-401131	2	Retaining Washer
ワッシャー		X32-501831	1	Washer
調整ワッシャー		X32-502121 X32-502122	N	Adjusting Washer
ワッシャー		X32-505722	N	Washer
スチールボール		X34-100571	1	Steel Ball
平ビス		X91-143010	2	Screw
ワッシャー		X98-050369	1	Washer
ワッシャー		X98-050409	1	Washer
調整ワッシャー		X98-070370 X98-070371 X98-070372 X98-070373 X98-070374	N	Adjusting Washer

REF. NO. 1-20398
REF. NO. 1-20399

EXPLODED VIEW
of
CANON FTb-N, BLACK FTb-N



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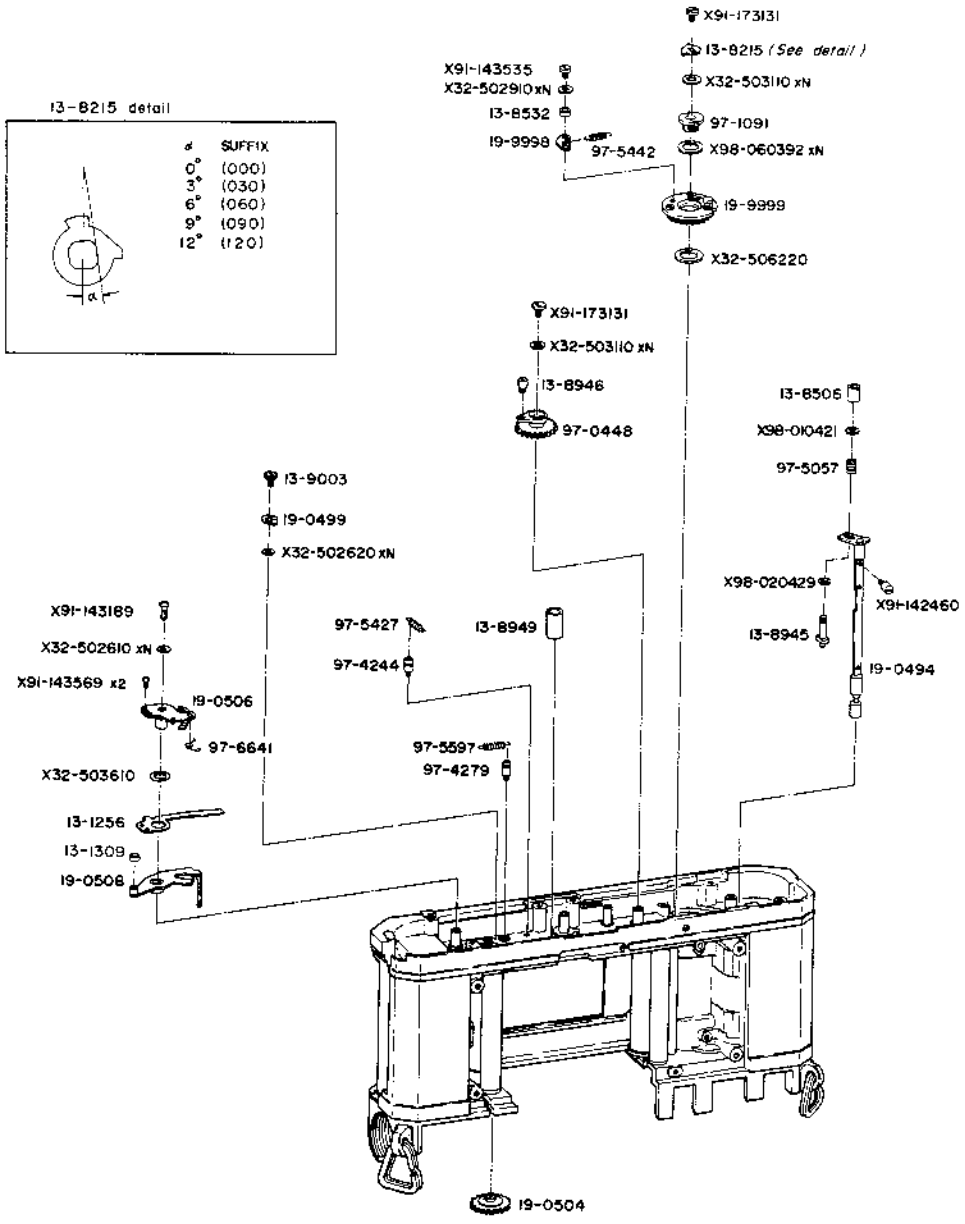
PARTS LIST

WINDING SHAFT & DIAPHRAGM RELEASE LEVER
巻き上げ軸　　蓄勢　レバー

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
段ビス	D	13-1236	1	Screw
巻き上げストッパー	C	13-1241	1	Winding Stopper
巻き戻しクランプレバー	E	13-1242	1	Rewind Clamp Lever
緊定レバー	D	13-1244(XXX)	1	Clutch Release Lever
分解図を参照，部品オーダー時は（XXX）の中にSUFFIXを入れる事。Enter suffix when ordering, See detail.				
ビス	D	13-1528	1	Screw
レリーズレバー軸	E	13-8224	1	Release Lever Shaft
ワッシャー	E	13-8822	1	Washer
巻き上げギヤーメタル	E	13-8833	1	Winding Gear Base
風車押え	D	13-8835	1	Cover Plate
ローラー	D	13-8989	3	Roller
プロペラレバー	E	19-0459	1	Release Lever
蓄勢レバー	D	19-0496	1	Diaphragm Release Lever
絞りレバー	D	19-0498	1	Diaphragm Release Lever
巻き上げ軸	D	19-1209	1	Winding Shaft
巻き上げギヤー	D	97-0444	1	Winding Gear
二段ギヤー	E	97-0445	1	Stop Gear
緊定レバー軸	D	97-3666	1	Clutch Release Lever Shaft
コイルスプリング	C	97-5058	3	Coil Spring
スプリング	D	97-5428	1	Spring
スプリング	D	97-6425	1	Spring
スプリング	D	97-6639	1	Spring
スプリング	D	97-6640	1	Spring
スプリング	D	97-6879	1	Spring
平ビス		X11-170307	1	Screw
十字皿ビス		X18-170307	8	Screw
緊定ワッシャー		X32-401322	1	Retaining Washer
ワッシャー		X32-502110	N	Washer
ワッシャー		X32-502930	N	Washer
ワッシャー		X32-502931	N	Washer
調整ワッシャー		X32-503130 X32-503131 X32-503132	N	Adjusting Washer
調整ワッシャー		X32-504610 X32-504611 X32-504612	N	Adjusting Washer
スチールボール		X71-7002	22	Steel Ball
平ビス		X91-143001	1	Screw
平ビス		X91-143566	1	Screw
平ビス		X91-173190	1	Screw
段ビス		X96-142187	1	Screw
ワッシャー		X98-040065	N	Washer

REF. NO. 1-20398
REF. NO. 1-20399

EXPLODED VIEW
of
CANON FTb-N, BLACK FTb-N



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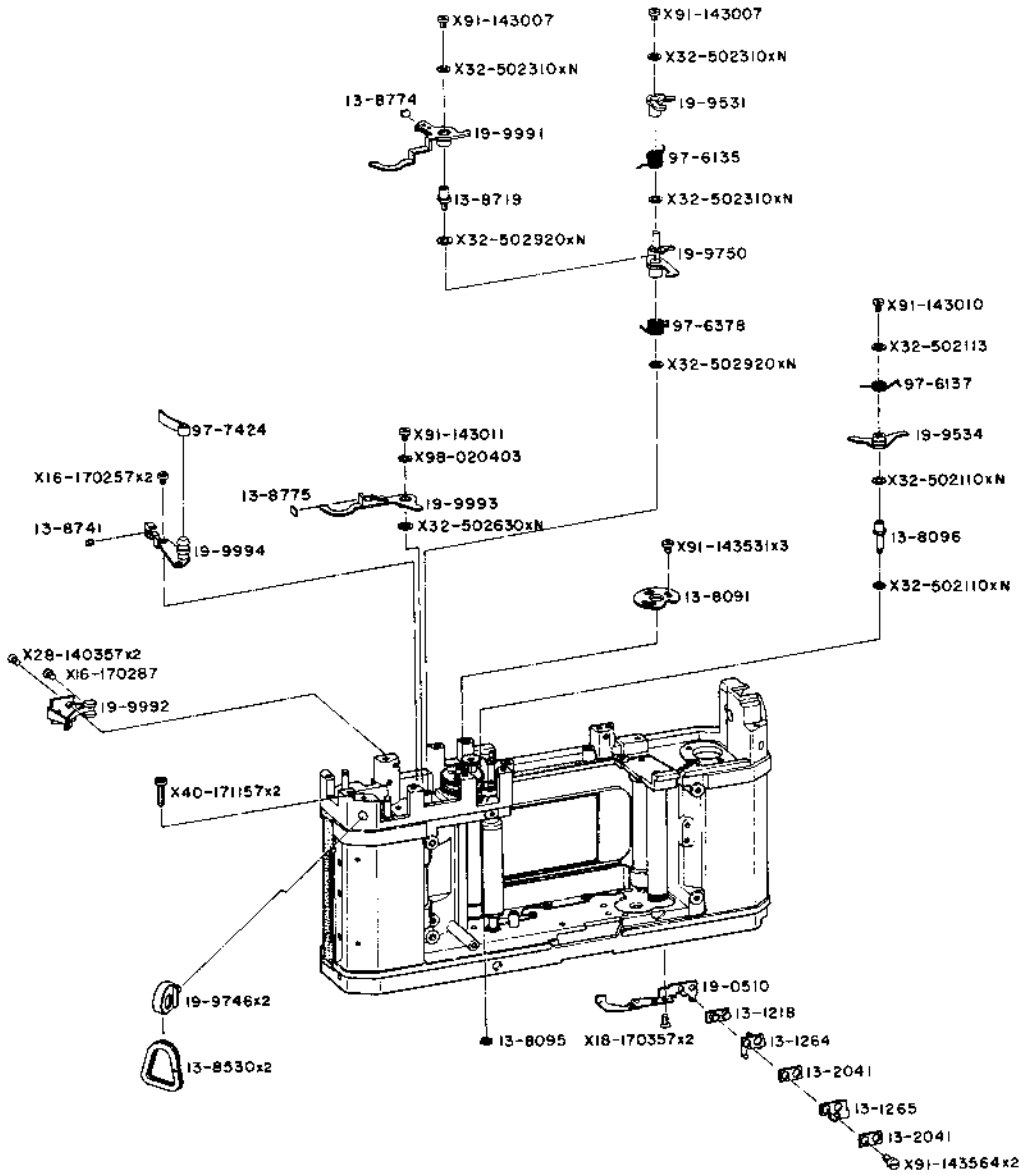
SHUTTER RELEASE SHAFT
シャッター レリーズ軸

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
ミラーチャージレバー	D	13-1256	1	Mirror Charge Lever
ビニールチューブ	D	13-1309	1	Vinyl Tube
六の字	D	13-8215(XXX)	1	Shutter Charge Pawl
分解図を参照，部品オーダー時は（XXX）の中にSUFFIXを入れる事。Enter suffix when ordering, See detail.				
ナット	D	13-8506	1	Nut
カラー	D	13-8532	1	Collar
シャッター軸ガイド	E	13-8945	1	Shutter Shaft Guide
ビス	D	13-8946	1	Screw
チューブ	E	13-8949	1	Tube
止めビス	E	13-9003	1	Screw
レリーズ棒	E	19-0494	1	Shutter Release Shaft
だるまレバー	E	19-0499	1	Diaphragm Reset Lever
ミラー戻しレバー	D	19-0504	1	Mirror Reset Gear
ミラー駆動ギヤー	D	19-0506	1	Clamp Lever
ミラーチャージレバー	D	19-0508	1	Mirror Charge Lever
ブレーキレバー	D	19-9998	1	Brake Lever
シャッターチャージギヤー	D	19-9999	1	Shutter Charge Gear
チャージギヤー	E	97-0448	1	Charge Gear
押え環	D	97-1091	1	Assembly Collar
バネ掛けビス	E	97-4244	1	Screw
バネ掛けビス	E	97-4279	1	Screw
コイルスプリング	D	97-5057	1	Coil Spring
コイルスプリング	D	97-5427	1	Coil Spring
コイルスプリング	D	97-5442	1	Coil Spring
コイルスプリング	D	97-5597	1	Coil Spring
スプリング	D	97-6641	1	Spring
調整ワッシャー		X32-502610 X32-502611 X32-502612	N	Adjusting Washer
ワッシャー		X32-502620	N	Washer
ワッシャー		X32-502910	N	Washer
調整ワッシャー		X32-503110 X32-503111 X32-503112 X32-503113	N	Adjusting Washer
ワッシャー		X32-503610	N	Washer
ワッシャー		X32-506220	N	Washer
調整ビス		X91-142460 X91-143461	N	Adjusting Screw
平ビス		X91-143189	1	Screw
平ビス		X91-143535	1	Screw
平ビス		X91-143569	2	Screw
平ビス		X91-173131	2	Screw
ワッシャー		X98-010421	1	Washer
ワッシャー		X98-020429	1	Washer
ワッシャー		X98-060392	N	Washer

REF. NO. 1-20398
REF. NO. 1-20399

EXPLODED VIEW
of
CANON FTb-N, BLACK FTb-N



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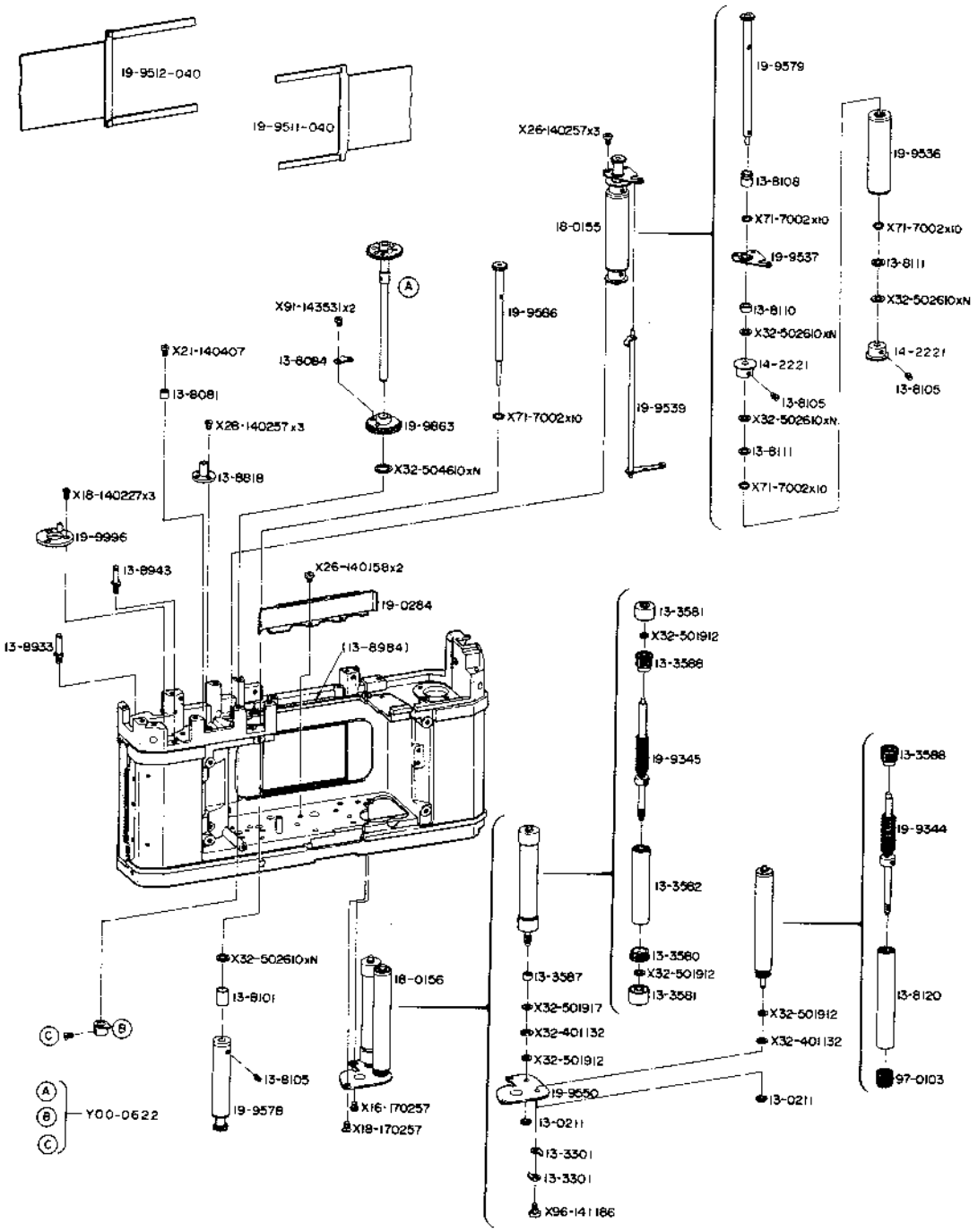
SHUTTER BRAKE & RELEASE CAM
シャッターブレーキ　　けりカム

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
絶縁台	D	13-1218	1	Insulator Base
フラッシュ接片	D	13-1264	1	Flash Contact
フラッシュ接片	D	13-1265	1	Flash Contact
絶縁板	D	13-2041	2	Insulator
けりカム	E	13-8091	1	Release Cam
ナット	D	13-8095	1	Nut
レリーズレバー軸	E	13-9096	1	Release Lever Shaft
吊環	C	13-8530	2	Neck Strap Relation
先幕ブレーキ軸	D	13-8719	1	1st Curtain Brake Shaft
調整ビス	D	13-8741	1	Screw
鹿皮	B	13-8774	1	Brake Leather
鹿皮	B	13-8775	1	Brake Leather
後幕解除レバー	D	19-0510	1	2nd Curtain Release Lever
ふりこ	E	19-9531	1	2nd Curtain Release Lever
緊定レバー	D	19-9534	1	Shutter Release Lever
耳環	C	19-9746	2	Neck Strap Catch
カマ	D	19-9750	1	2nd Curtain Release Lever
先幕ブレーキ	E	19-9991	1	1st Curtain Brake
先幕ブレーキ地板	E	19-9992	1	1st Curtain Brake Base
後幕ブレーキ	E	19-9993	1	2nd Curtain Brake
後幕ブレーキ地板	E	19-9994	1	2nd Curtain Brake Base
スプリング	D	97-6135	1	Spring
スプリング	D	97-6137	1	Spring
スプリング	D	97-6378	1	Spring
ブレーキバネ	E	97-7424	1	Brake Band
十字ナベビス		X16-170257	2	Screw
十字ナベビス		X16-170287	1	Screw
十字皿ビス		X18-170357	2	Screw
十字皿ビス		X28-140357	2	Screw
調整ワッシャー		X32-502110 X32-502111 X32-502112 X32-502113	N	Adjusting Washer
調整ワッシャー		X32-502310 X32-502311 X32-502312	N	Adjusting Washer
ワッシャー		X32-502630	N	Washer
調整ワッシャー		X32-502920 X32-502921 X32-502922	N	Adjusting Washer
十字ナベビス		X40-171157	2	Screw
平ビス		X91-143007	2	Screw
平ビス		X91-143010	1	Screw
平ビス		X91-143011	1	Screw
平ビス		X91-143531	3	Screw
平ビス		X91-143564	2	Screw
ワッシャー		X98-020403	N	Washer

REF. NO. 1-20398
REF. NO. 1-20399

EXPLODED VIEW
of
CANON FTb-N, BLACK FTb-N



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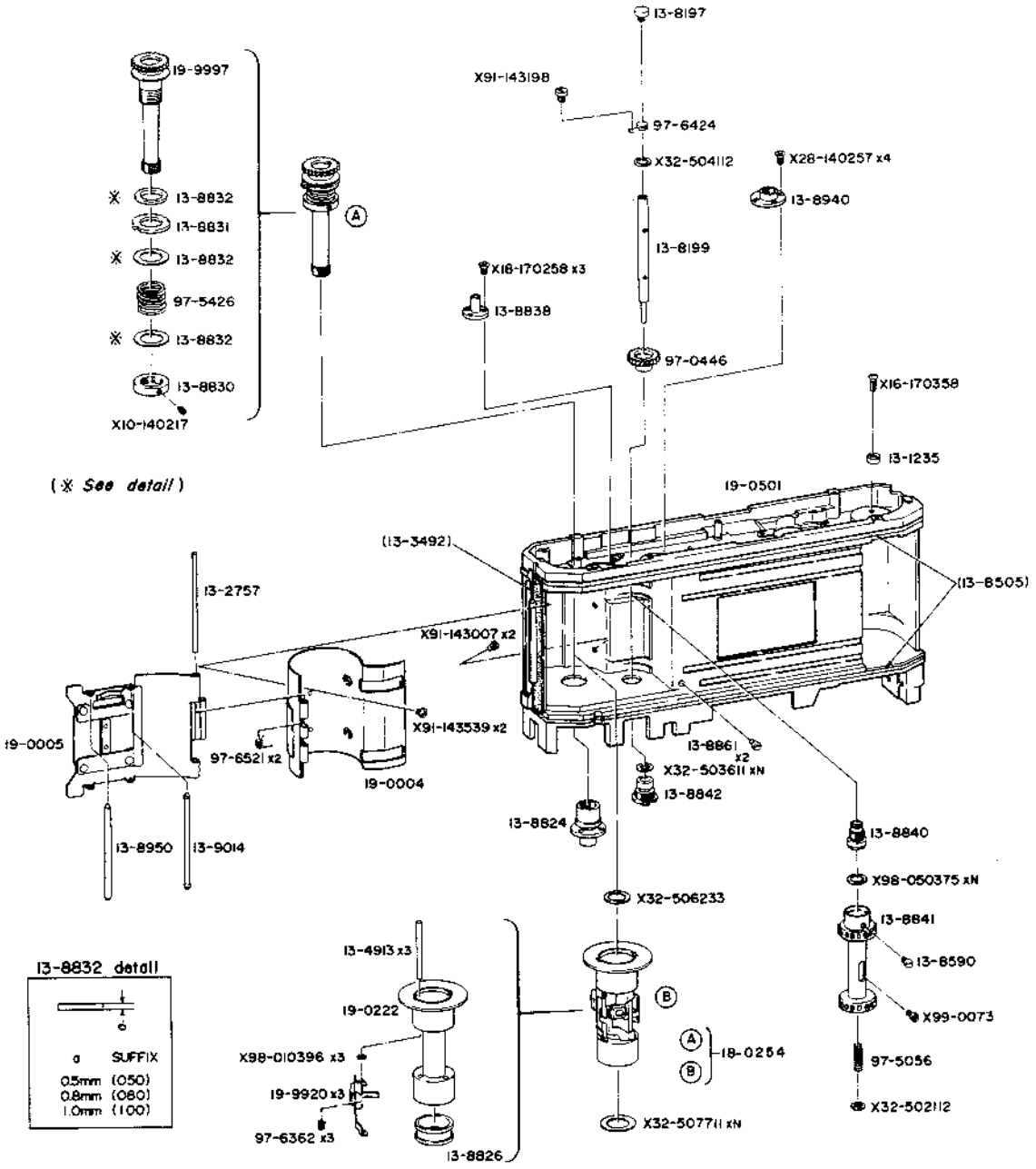
1st CURTAIN DRUM & SPRING DRUM UNIT
先幕ドラム　　スプリングドラムユニット

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
先幕ギヤー	E	Y00-0622	1	1st Curtain Gear
ナット	D	13-0211	2	Nut
爪	D	13-3301	2	Claw
ドラムキャップ	D	13-3580	1	Flange
ローラー	D	13-3581	2	Roller
先幕ドラム	D	13-3582	1	1st Curtain Drum
カラー	D	13-3587	1	Collar
ナット	D	13-3588	2	Nut
偏芯コロ	E	13-8081	1	Eccentric Collar
後幕フック	D	13-8084	1	2nd Curtain Hook
カラー	E	13-8101	1	Collar
セットビス	D	13-8105	3	Screw
カラー	D	13-8108	1	Collar
カラー	D	13-8110	1	Collar
ワッシャー	D	13-8111	2	Washer
後幕ドラム	E	13-8120	1	2nd Curtain Spring Drum
ブレーキ軸	E	13-8818	1	Brake Shaft
戻しレバー軸	E	13-8933	1	Reset Lever Shaft
レバー軸	E	13-8943	1	Connecting Lever Shaft
モルトプレーン	D	13-8984	1	Light Shield
ドラムコロ	D	14-2221	2	Flange
先幕ドラムユニット	D	18-0155	1	1st Curtain Drum
スプリングドラム	D	18-0156	1	Spring Drum Unit
遮光板	E	19-0284	1	Light Shield
後幕スプリング	D	19-9344	1	2nd Curtain Spring
先幕スプリング	D	19-9345	1	1st Curtain Spring
先幕	D	19-9511-040	1	1st Curtain
後幕	D	19-9512-040	1	2nd Curtain
先幕ドラム	D	19-9536	1	1st Curtain Drum
先幕ドラム地板	E	19-9537	1	1st Curtain Drum Base
アンクル軸	D	19-9539	1	Anchor Release Link
スプリング地板	E	19-9550	1	Curtain Spring Base
後幕ドラム	E	19-9578	1	2nd Curtain Drum
先幕ドラム軸	D	19-9579	1	1st Curtain Drum Shaft
後幕ドラム軸	E	19-9586	1	2nd Curtain Drum Shaft
後幕ギヤー	E	19-9863	1	2nd Curtain Gear
枚数調カム	E	19-9996	1	Counter Cam
後幕スプリングギヤー	E	97-0103	1	2nd Curtain Spring Gear
十字ナベビス		X16-170257	1	Screw
十字皿ビス		X18-140227	3	Screw
十字皿ビス		X18-170257	1	Screw
平ビス		X21-140407	1	Screw
十字ナベビス		X26-140158	2	Screw
十字ナベビス		X26-140257	3	Screw
十字皿ビス		X28-140257	3	Screw
製定ワッシャー		X32-401132	2	Retaining Washer
ワッシャー		X32-501912	4	Washer
ワッシャー		X32-501917	1	Washer
調整ワッシャー		X32-502610 X32-502611 X32-502612	N	Adjusting Washer
調整ワッシャー		X32-504610 X32-504611 X32-504612	N	Adjusting Washer
スチールボール		X71-7002	40	Steel Ball
平ビス		X91-143531	2	Screw
段ビス		X96-141186	1	Screw

REF. NO. 1-20398
REF. NO. 1-20399

EXPLODED VIEW
of
CANON FTb-N, BLACK FTb-N



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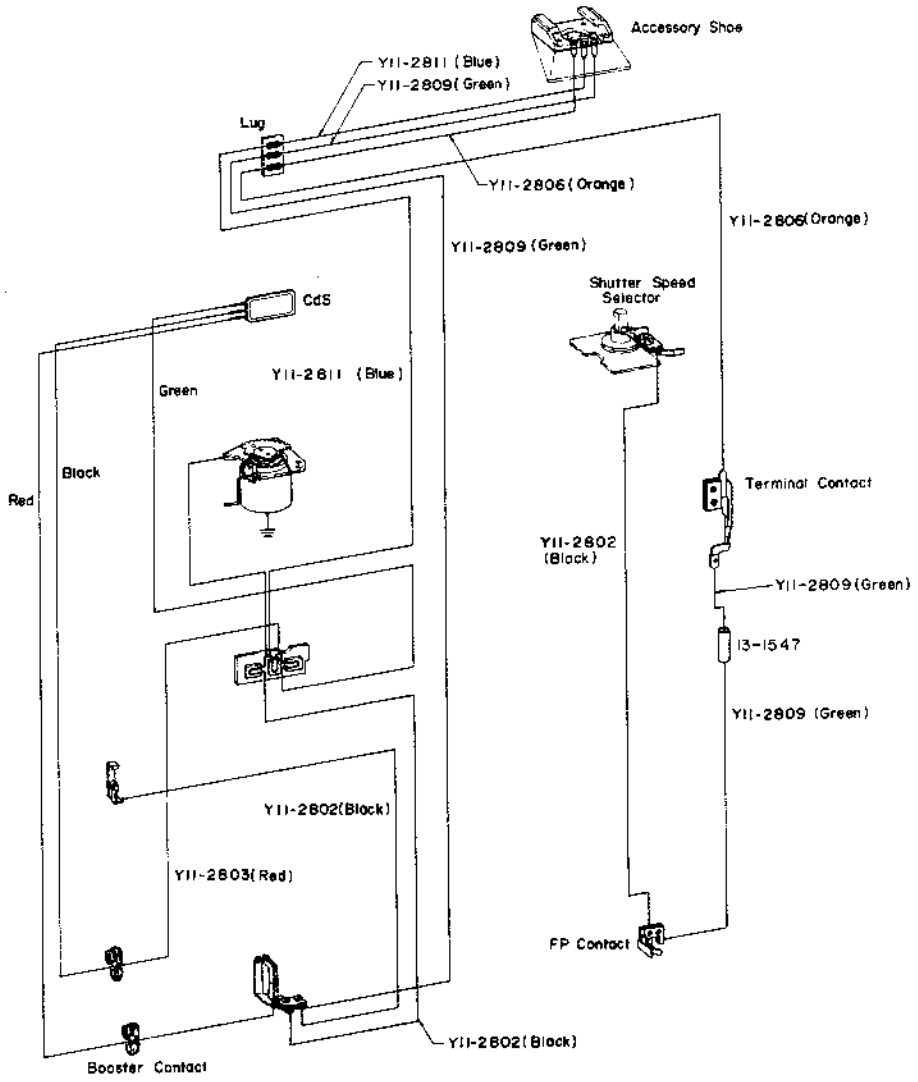
SPROCKET & TAKE UP SPOOL
スプロケット　巻取りスプール

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
エキセンカラー	D	13-1235	1	Eccentric Collar
蝶番軸	E	13-2757	1	Hinge Shaft
遮光板	D	13-3492	1	Light Shield
水かき軸	E	13-4913	3	Shaft
巻き戻し釦	E	13-8197	1	Rewind Button
スプロケット軸	E	13-8199	1	Sprocket Shaft
遮光板	D	13-8505	2	Light Shield
平ビス	C	13-8590	1	Screw
スプール軸	E	13-8824	1	Spool Shaft
スプール受けメタル	E	13-8826	1	Spool Support Metal
ナット	D	13-8830	1	Nut
スペーサー	E	13-8831	1	Spacer
ファイバー	E	13-8832(XXX)	3	Fiber Washer
分解図を参照，部品オーダー時は(XXX)の中にSUFFIXを入れる事.				Enter suffix when ordering, See detail.
アイドルギヤー軸	E	13-8838	1	Idle Gear Shaft
スプロケットクラッチ	E	13-8840	1	Sprocket Clutch
スプロケット	E	13-8841	1	Sprocket
スプロケット軸受け	E	13-8842	1	Sprocket Bushing
フィルムガイドビス	D	13-8861	2	Film Guide Screw
巻き上げギヤー軸受け	E	13-8940	1	Winding Gear Bushing
ローラー	D	13-8950	1	Roller
ローラー	D	13-9014	1	Roller
巻取りスプール	D	18-0254	1	Take Up Spool Unit
スプロケットカバー	C	19-0004	1	Sprocket Cover
中ぶた	C	19-0005	1	Inner Cover
巻き取りスプール	E	19-0222	1	Take Up Spool
本体	E	19-0501	1	Body
水かき	E	19-9920	3	Friction Rubber
巻き取りスプール軸	E	19-9997	1	Take Up Spool Shaft
スプロケットギヤー	E	97-0446	1	Sprocket Gear
コイルスプリング	E	97-5056	1	Coil Spring
コイルスプリング	E	97-5426	1	Coil Spring
スプリング	E	97-6362	3	Spring
スプリング	D	97-6424	1	Spring
スプリング	D	97-6521	2	Spring
止めビス		X10-140217	1	Screw
十字ナベビス		X16-170358	1	Screw
十字皿ビス		X18-170258	3	Screw
十字皿ビス		X28-140257	4	Screw
ワッシャー		X32-502112	1	Washer
調整ワッシャー		[X32-503611 X32-503612]	N	Adjusting Washer
ワッシャー		X32-504112	1	Washer
ワッシャー		X32-506233	1	Washer
調整ワッシャー		[X32-507711 X32-507712]	N	Adjusting Washer
平ビス		X91-143007	2	Screw
平ビス		X91-143198	1	Screw
平ビス		X91-143539	2	Screw
ワッシャー		X98-010396	3	Washer
調整ワッシャー		[X98-050375 X98-050376]	N	Adjusting Washer
平ビス		X99-0073	1	Screw

REF. NO. 1-20398
REF. NO. 1-20399

EXPLODED VIEW
of
CANON FTb-N, BLACK FTb-N



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CANON REPAIR GUIDE

CANON FTb

(REF. NO. 1-20395)

CANON INC. JAPAN

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Introduction

The FTb is a redesigned and improved version of the proved FT QL design which incorporates many of the advanced features of the F-1, such as the FD lens group, Maxium Aperture Metering, Canon's "CAT System" flash automation, and an abnormal release prevention unit. These added features make the FTb slightly more complicated to repair and require more care on the part of the repairman.

1. Exposure accuracy is measured in the same way as the F-1 using the standard FD 50mm 1 : 1.4 lens. The Meter, CdS and variable resistor must be replaced as a unit. In order to maintain CAT system accuracy, variations it the start position of the meter needle should be kept to a minimum. Therefore, when aligning the meter for low brightness, the ND filters placed in front of the CdS should be carefully chosen, and fine adjustment made with the meter eccentric screw.

2. Distance from the lens mount surface to the Max. Aperture Correction Lever should be measured with slide calipers.

3. Since an abnormal release prevention unit is used in this design, play in the camera bottom levers is more critical than before. Excess play can cause the shutter curtain to stick during travel.

1. Disassembly

1.1 Top Cover

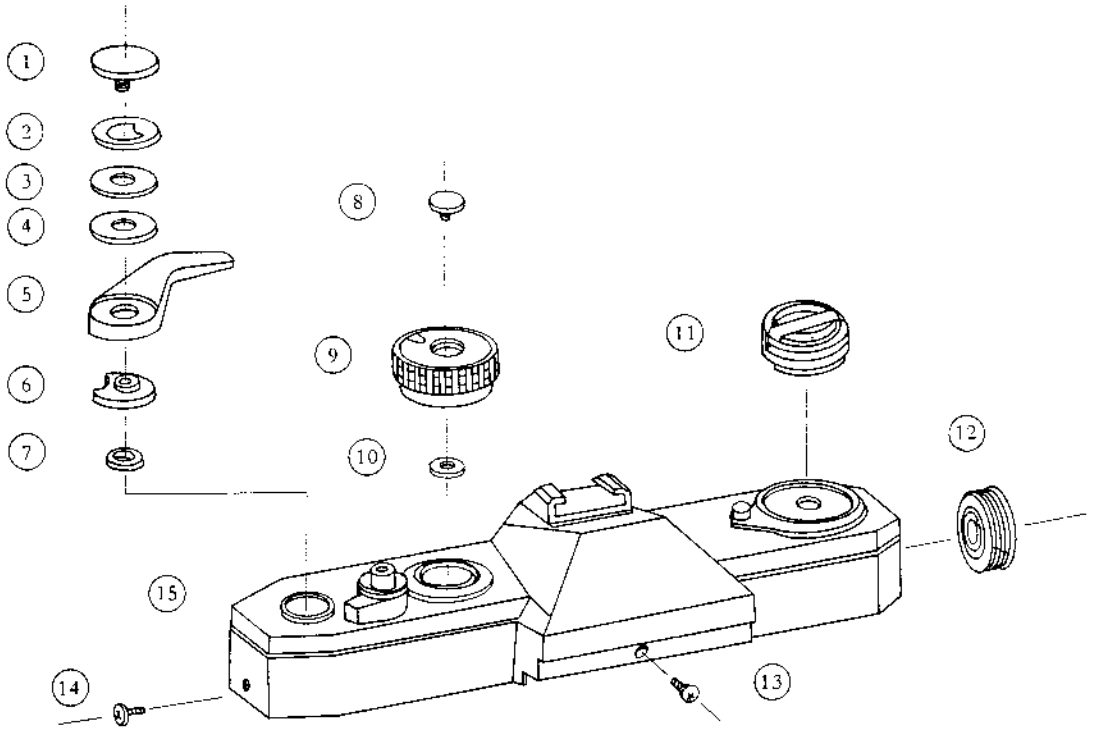


Fig. 1

1.	Winding Lever	1	Pin Face Screw 13-8061	2	Washer 13-8062	3	Spring Washer 13-8059	
		4	Washer X98-080162	5	Winding Lever 19-9577			
		6	Winding Lever Seat 13-8057	7	Washer X32-504121 - 2	x n		
2.	Shutter Speed Dial	8	Pin Face Screw 13-8696	9	Shutter Speed Dial 18-0433			
		10	Washer X32-504121 - 2	x n				
3.	Rewing Crank Unit	11	Rewind Crank Unit 18-0260					
4.	Top Cover	12	Battery Cover 18-0313	13	Screw X94-170110	14	Screw X19-170306	x 3
		15	Top Cover 19-0503					

1.2 Base Cover

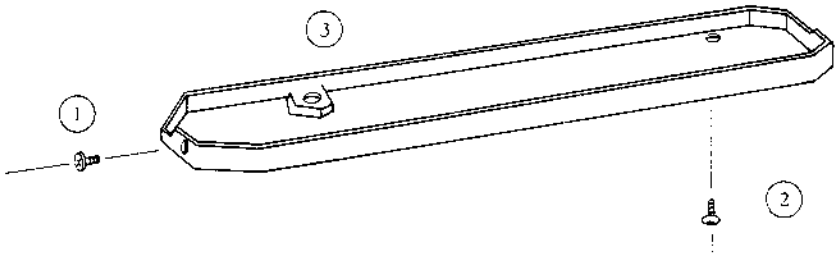


Fig. 2

1.	Base Cover	1	Screw X19-170306	2	Screw X18-170306 x 2
		3	Base Cover 13-1204		

1.3 Film Counter Unit and Shutter Speed Selection

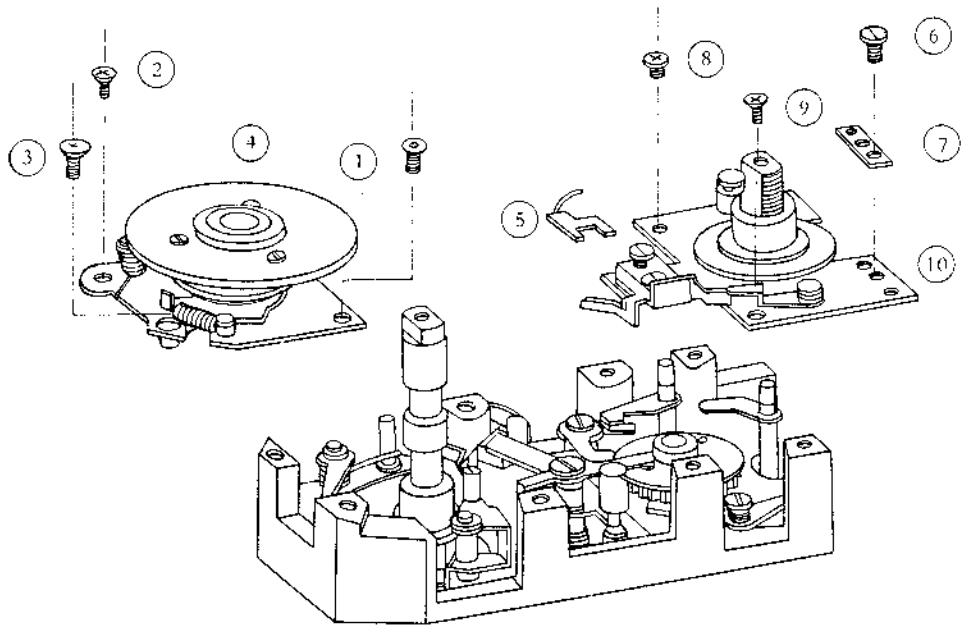


Fig. 3

1. Film Counter Unit

1 Screw X16-170287 2 Screw X18-170287 3 Screw X18-200287 x 2

4 Film Counter Unit 18-0261

2. Shutter Speed Selector

5 Lug 13-8142 6 Screw X16-140187 x 2

7 Slow Shutter Link Holder 13-8131 8 Screw X16-170287

9 Screw X18-170287 x 2 10 Shutter Speed Selector 18-0431

1.4 Front Panel (Mirror Box)

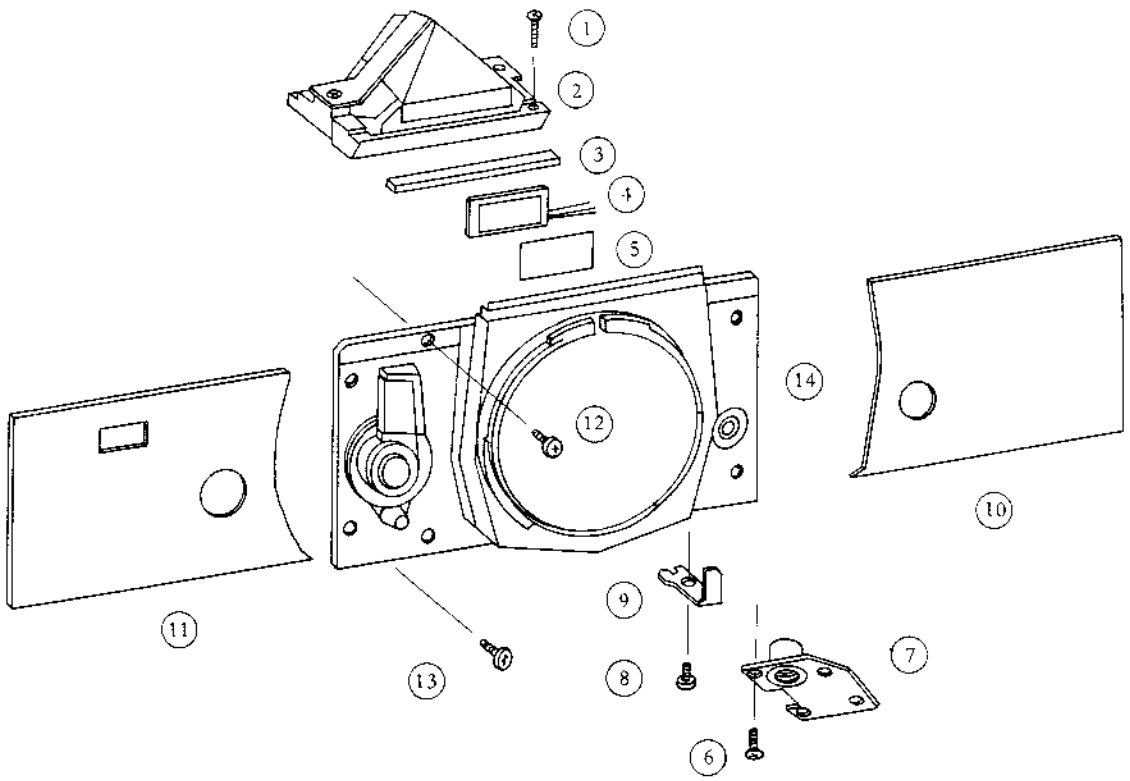


Fig. 4

1.	Pentaprism	1	Screw X16-170707 x 3	2	Pentaprism 10-0233
		3	Dust Guard 13-1339	4	CdS P/O 18-0455
		5	ND Filter 13-8976		
2.	Tripod Socket	6	Screw X18-200407 x 4	7	Tripod Socket 19-9546
		8	Screw X16-170208 x 2	9	Diaphragm Release Lever 13-1254
3.	Front Panel	10	Leather (right) 13-1296	11	Leather (left) 13-1297
		12	Screw X95-170040	13	Screw X18-170508 x 5
		14	Front Panel 19-0502		

1.5 Condenser Lens Box

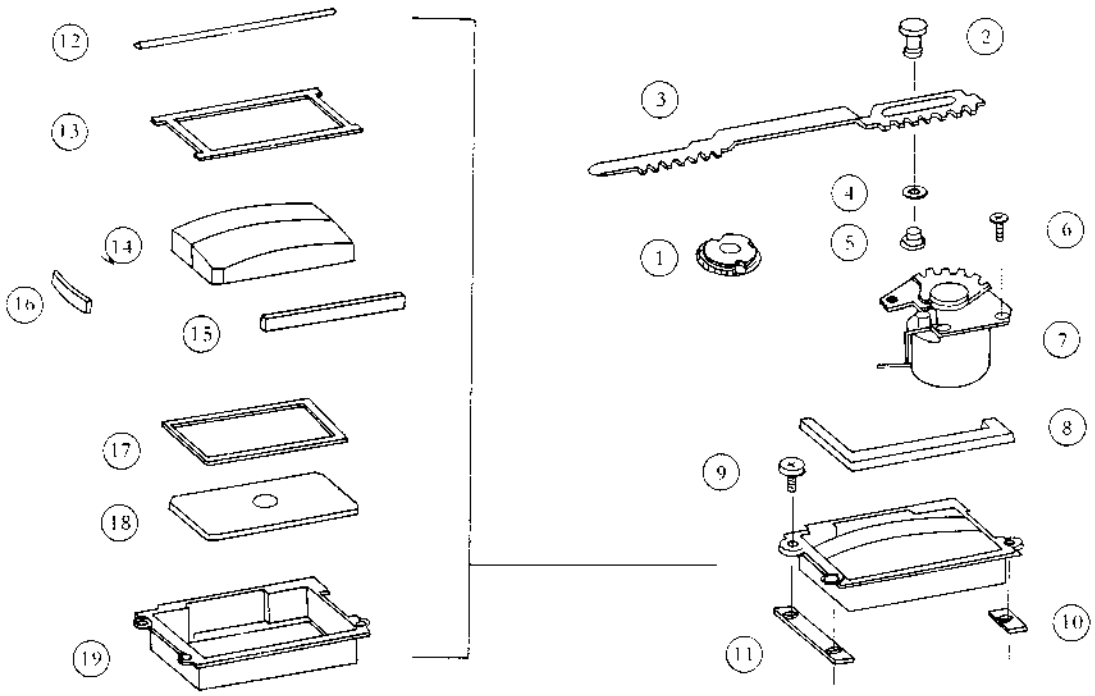


Fig. 5

1.	Meter Unit	1 Coupling Gear 97-0352	2 Screw 13-1301	3 Meter Set Cam 13-1281
		4 Washer X32-502120 x n	5 Collar 13-1303	6 Screw X18-170258 x 3
		7 Meter Unit P/O 18-0455		
2.	Condenser Lens	8 Dust Guard 13-1273		9 Screw X91-143241 x 3
		10 Washer (short) 13-9088		11 Washer (long) 13-9089
3.	Condenser Lens Box	12 Retainer 13-8787	13 Retainer 13-8677	14 Condenser Lens 12-0238
		15 Light Shield 13-8992	16 Plate Spring 13-8785	17 Mask 13-8785
		18 Focusing Screen 10-0240		19 Condenser Lens Box 13-1208

2. Replacement and Adjustment

2.1 Sprocket

1. Removal of Sprocket

Remove the following parts:

Shutter Speed Selector, Film Counter Unit, Shutter Release Shaft, Sprocket Cover, Take-up Spool Unit and Master Gear.

To remove Sprocket Gear and Clutch, Shutter Charge Gear should be removed.

2. Mounting Sprocket Clutch

1) Apply GE-7 to the circumference of Sprocket Gear (97-0446).

2) Mount Sprocket Clutch (13-8840) as shown in Fig. 1.

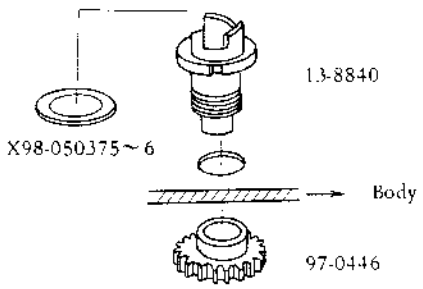


Fig. 1

3. Mounting Sprocket

1) Apply GE-7 to the inside surface of Sprocket Bushing (13-8842).

2) Apply IH-1* to the upper and lower fitting parts of Sprocket (13-8841).

3) Put Washer (X98-050375 and 6) on Sprocket Clutch (13-8840).

4) Mount the parts in the sequence shown in Fig. 2.

4. Adjustment

1) Make the distance between the upper and lower pawls of the Sprocket equal to that between the inside rails. Make adjustment with Washer (X98-050375 and 6).

2) Vertical play of the Sprocket must be 0.1 ~ 0.2mm. Adjust the play with Washer (X32-503611 and 2).

Note: * Photo Lube IH-1 is mistakenly listed as TH-1 in the Service Tools List Lubricants section. It is also known as PL-021.

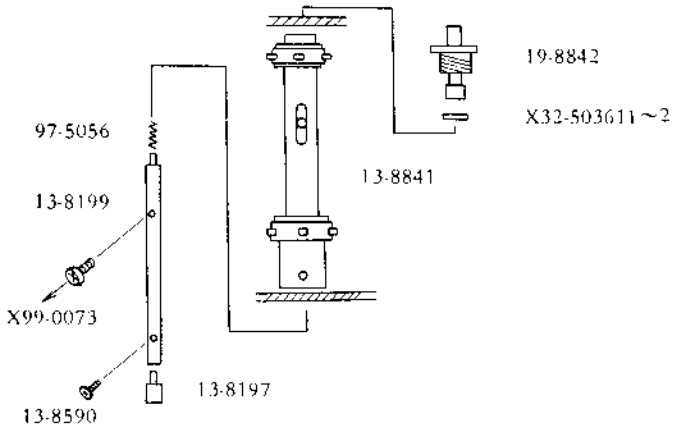


Fig. 2

5. Mounting Sprocket Shaft

   1) Apply GE-7 to Sprocket Shaft (13-8199).

   2) Attach the Sprocket Shaft and Coil Spring (97-5056) from underside of Body.

2.2 Parts related to Brake

1. Removal of parts related to Brake

   To remove the parts related to Brake, Film Counter Unit and Shutter Speed Selector should be removed. Moreover, to remove 2nd Curtain Brake (19-9993), 1st Curtain Gear (Y00-622) and 2nd Curtain Gear (19-9863) should be removed. When adjusting the Brake torque, removal of the above parts is unnecessary.

2. Mounting parts related to Brake

   1) Mount the parts in the sequence shown in Fig. 3.

   2) After mounting, apply Launa 40 to Sprocket Bushing (13-8842) and 1st Curtain Brake Shaft (13-8719).

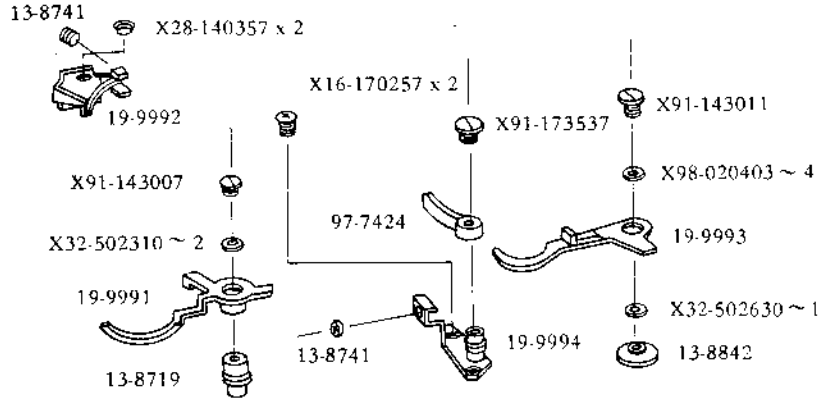


Fig. 3

3. Adjustment

1) Vertical play of 2nd Curtain Brake (19-9993) must be 0.03 ~ 0.08mm.
Adjust the play with Washer (X32-502630)and 1).

2) Vertical play of 1st Curtain Brake (19-9991) must be at least 0.05mm.
Adjust the play with Washer (X32-502310 - 2).

Note: The ends of 1st and 2nd Curtain Brakes shouldn't be in contact with each other.

4. Adjustment of Brake torque

1) Brake torque: 2nd Curtain Brake: 100 ~ 200g
1st Curtain Brake: 150 ~ 250g

2) Adjust the Brake torque with Screw (13-8741).

Note: After adjustment, apply Diabond (bonding agent) to the Screw.

2.3 Take-up Spool Unit

1. Mounting Take-up Spool Unit

Mount the parts in the sequence shown in Fig. 4.

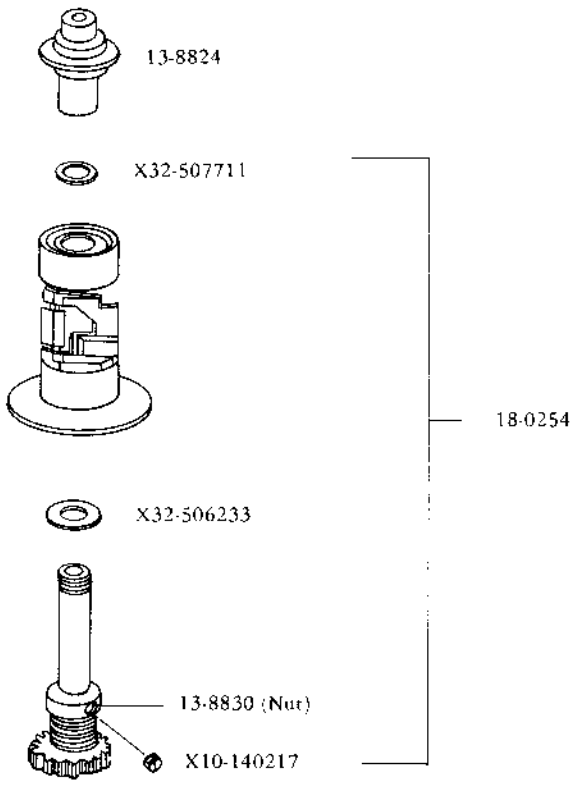


Fig. 4

2. Spool torque

Measure the torque by using a spring balance with nylon thread wound around Spool circumference:

Limit: 280 ~ 400g

Measurement with torque screwdriver:

Limit: 210 ~ 280gcm

Make adjustment with Nut (13-8830).

2.4 Parts related to Winding Shaft

1. Installation of Winding Shaft

1) Apply AD-1 to the inside face of Winding Gear (97-0444) and GE-7 to the rear side, respectively.

2) Apply GE-7 to the upper and lower fitted parts of Winding Shaft (19-0399).

3) Install the parts in the order shown in Fig. 5.

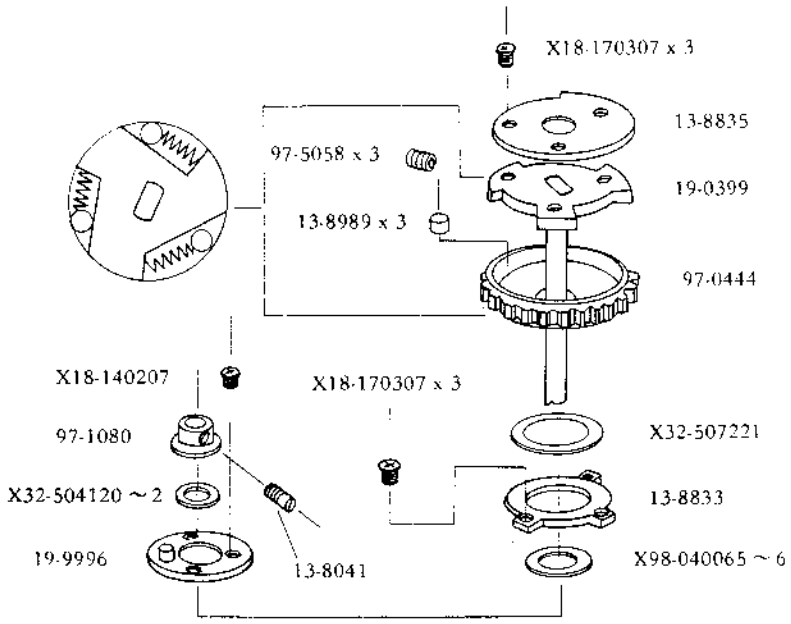


Fig. 5

2. Adjustment

1) Vertical play of Winding Shaft (19-0399) must be 0.1 ~ 0.2mm.
Adjust the play with Washer (X32-504120 - 2).

2) Set the dowel of Counter Cam (19-9996) at the position in Fig. 6, 35 degrees of angle ± one tooth.
Make adjustment by aligning the engaging position of Take-up Spool Shaft (19-9997).

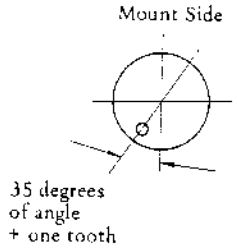


Fig. 6

2. 5 Shutter Button stroke

1. Mounting Shutter Release Shaft

Mount the parts in the order shown in Fig. 7.
Apply MoS_2 grease to the respective fitted parts.

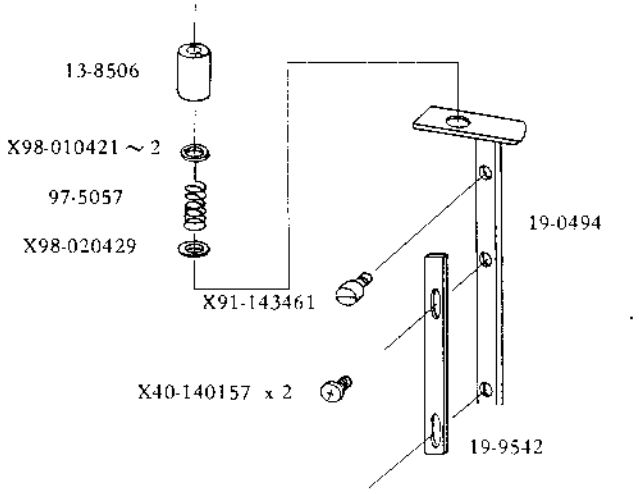


Fig. 7

2. Shutter Button stroke

1) Operation of the mechanism associated with the Shutter Button stroke is as follows.

	0. 5mm 1mm 1. 5mm 2mm
1. Free travel of Shutter Button during winding	⟷
2. Start of self-timer	⟷
3. Disengagement of Release Lever	⟷
4. Free travel of selftimer	⟷
5. Excess stroke	⟷

(1) Bend the top end of Shutter Release Shaft (19-0494).
(2) Make adjustment by using the slot of Selftimer Starter (19-9542).
(3) Make adjustment with Screw (X11-170307).
(4) Choose Screw (X91-143461).
(5) Make adjustment with Washer (X98-010421 and 2).

3. Shutter Button pressure

1) Pressure: 150 ~ 450 g

2) Adjust the pressure with Spring (97-5057).

2.6 Shutter Charge Gear

1. Adjustment of perforation position

1) Wind the mechanism.

2) Set Charge Gear (97-0448) at the position 20 degrees ± one tooth in Fig. 8.

3) Place the pawl of Sprocket (13-8841) at the position in Fig. 9.

4) Positions of the frame and film perforation should be as specified in Fig. 10.

5) Make adjustment by aligning the engaging position of the Shutter Charge Gear (19-9999).

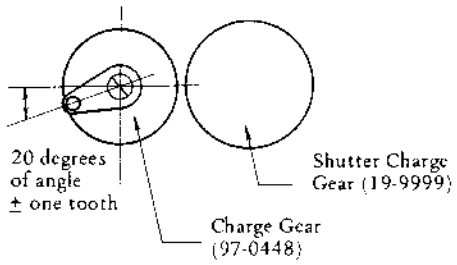


Fig. 8

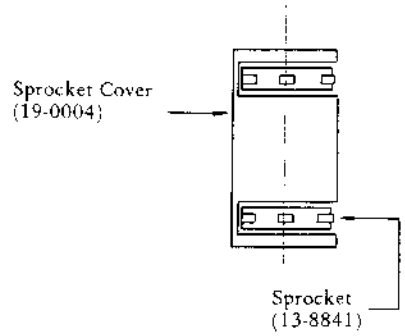


Fig. 9

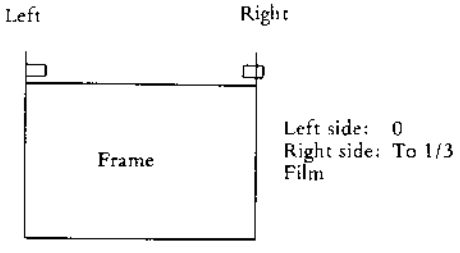
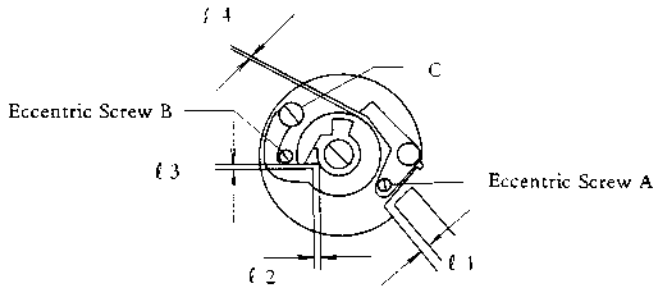


Fig. 10

2. Adjustment of Shutter Charge Gear



Unit: mm

Symbol	Limit	Adjustment	Remarks
ℓ1	0 ~ 0.5	Selection of suitable Shutter Charge Pawl (13-8215)	With Winding Lever turned fully
ℓ2	0.1 ~ 0.2	by eccentric screw B	With Winding Lever turned fully
ℓ3	0.05~0.15	By adjusting hole of screw C	With Winding Lever turned fully
ℓ4	0 ~ 0.5	By eccentric screw A	With curtain removed

Fig. 11

2.7 2nd and 1st Curtain Gears

1. Mounting Drums

1) Apply a low temp. grease to the upper and lower fitted parts of 2nd Curtain Drum Shaft (19-9586).

2) Mount 10 Steel Balls (X71-7002) on the 2nd Curtain Drum Shaft.

3) Mount the parts in the order shown in Fig. 11.

4) Mount Anchor Release Link (19-9539).

5) Mount 1st Curtain Drum (18-0155).

2. Mounting 2nd and 1st Curtain Gears

1) Apply a low temp. grease to the fitted parts of 2nd Curtain Gear (19-9863) and 1st Curtain Gear (Y00-0622).

2) Mount the parts in the order shown in Fig. 12.

2.8 Shutter Release Lever

1. Mounting Shutter Release Lever

1) Install the parts in the order shown in Fig. 14.

2) Apply Launa 40 to Release Lever Shaft (13-8096).

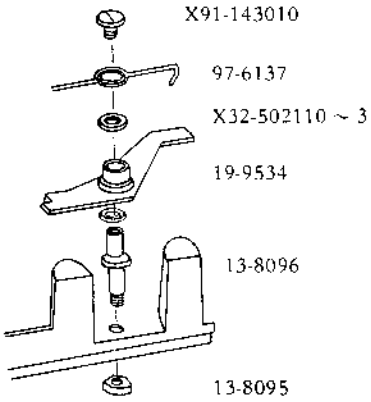


Fig. 14

2. Adjustment

1) Vertical play of the Shutter Release Lever (19-9534) must be 0.05 ~ 0.12mm.
Adjust the play with Washer (X32-502110 - 2).

2) Wind the mechanism.

3) Clearance between 1st Curtain Gear (19-9533) and Shutter Release Lever (19-9534) must be 0.1 ~ 0.2mm. See Fig. 15. The clearance adjustment is to be made by turning Release Lever Shaft (13-8096).
(Use 13-8095-2 spanner)

Note: After adjustment, apply Diabond (bonding agent) to Nut (13-8095).

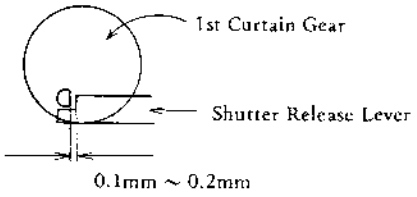


Fig. 15

2.9 Mirror Reset Gear

1. Mounting Curtain

1) When winding the mechanism, separation between the 2nd Curtain end and the frame edge should be 5 ~ 5.5mm. See Fig. 16.

2) When 1st Curtain has already been mounted, separation 5mm should be provided at the position where 2nd Curtain is caught in 2nd Curtain Release Lever (19-9750).

3) Curtain overlap during winding should be 2 ~ 2.5mm at the center of the frame.

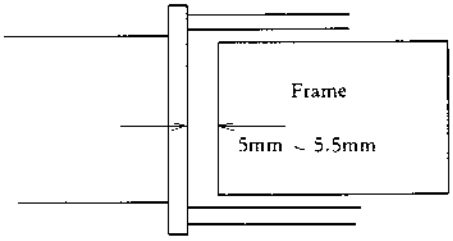


Fig. 16

2. Installation and adjustment of Mirror Reset Gear

1) Wind the mechanism.

2) Apply a low temp. grease to the fitted part of the Mirror Reset Gear (19-0504).

3) Mount the Gear at the position 2.5 ~ 3.5 teeth as shown in Fig. 17.

4) Adjustment is to be made by aligning engagement of the Mirror Reset Gear.

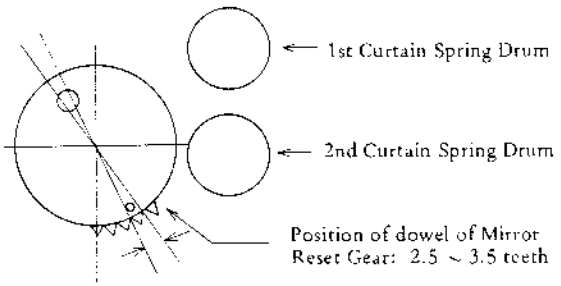


Fig. 17

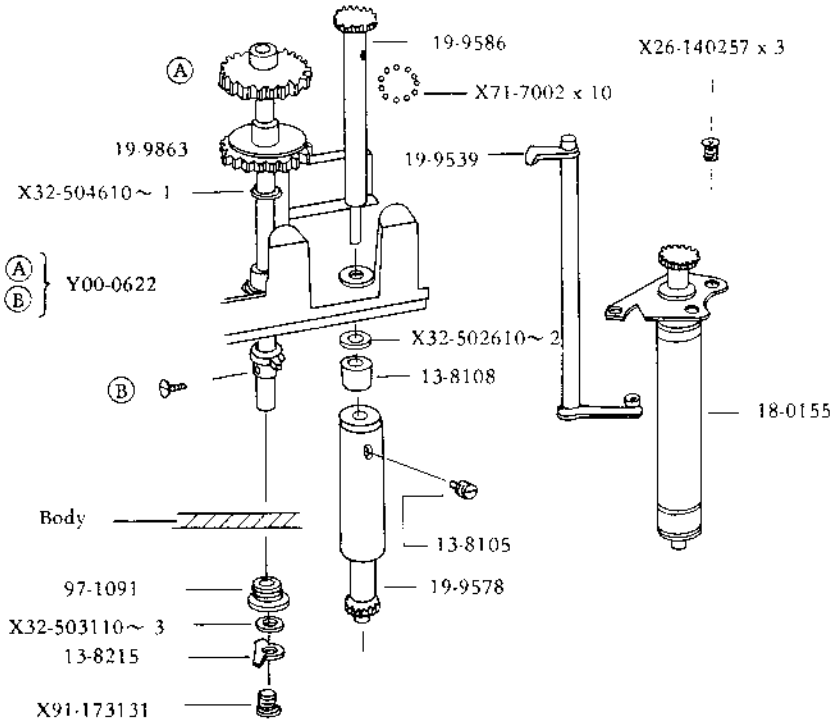


Fig. 12

3. Adjustment

1) Vertical play of the 2nd Curtain Drum Shaft must be 0.1 ~ 0.2mm.
Adjust the play with Washer (X32-503110 ~ 3).

2) The difference between the top of the 2nd Curtain Gear (19-9863) and the top of the bearing should be: ±0.0 -0.05mm See Fig. 13.
Adjust the difference with Washer (X32-504610 - and 1).

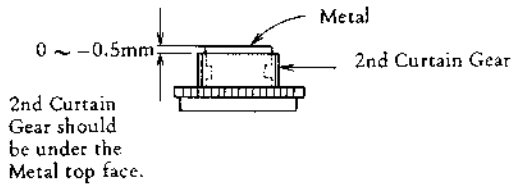


Fig. 13

3) Vertical play of 1st Curtain Gear must be 0.1 ~ 0.15mm.
Adjust the play with Washer (X32-503110 - 3).

2.10 2nd Curtain Release Levers (19-9750) and (19-9531)

1. Mount the 2nd Curtain Release Levers (19-9750) and (19-9531) as shown in Fig. 18.

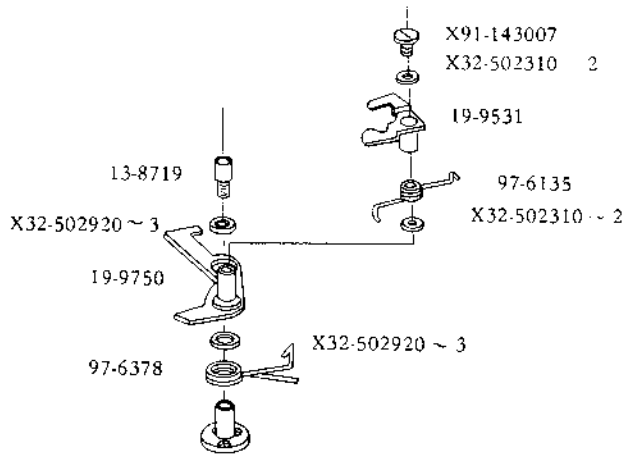


Fig. 18

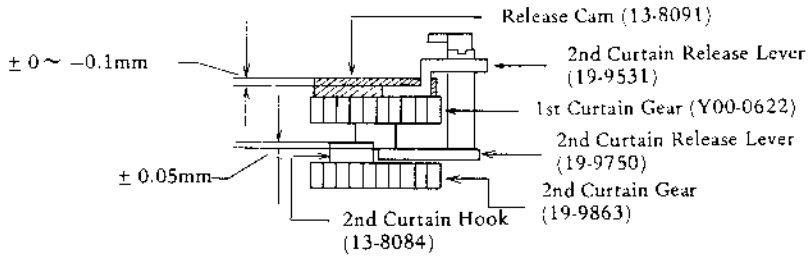
2. Adjustment

1) Vertical play at the end of 2nd Curtain Release Lever must be 0.03 ~ 0.08mm.
The play is to be adjusted by Washer (X32-502920 - 3).

2) The Lever (19-9750) and 2nd Curtain Hook (13-8084) should be at the same level. Limit: ±0.05mm
See Fig. 19.
Make adjustment with Washer (X32-502920 - 3).

3) Vertical play of 2nd Curtain Release Lever must be 0.03 ~ 0.08mm.
Adjust the play with Washer (X32-502310 - 2).

4) The Lever (19-9531) and Release Cam (13-8091) should be at the same level. Limit: +0 ~ -0.1mm
See Fig. 19.
Make adjustment with Washer (X32-502310 - 2).



3. Adjustment of separation between 2nd Curtain Release Lever (19-9750) and 2nd Curtain Hook

1) Separation "A": 0.2 ~ 0.4mm See Fig. 20.

Adjustment is to be made by using the slot of the 2nd Curtain Hook.

2) Amount of engagement "B": 0.3 ~ 0.4mm See Fig. 20

Make adjustment with Eccentric Collar.

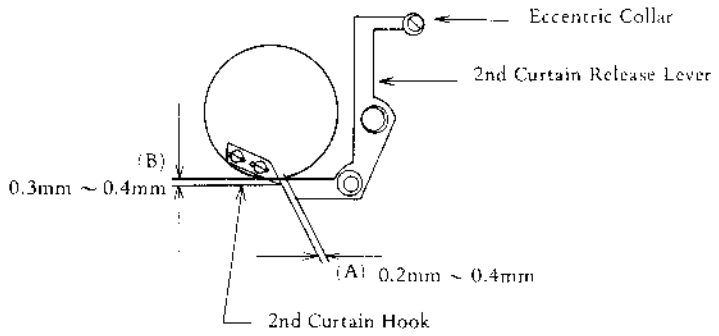


Fig. 20

2.11 Shutter

1. Installation and adjustment of Slow Shutter Gear

1) Apply a low temp. grease to the shaft of Slow Shutter Gear (97-0102).

2) Wind the mechanism.

3) Install Slow Shutter Pawl (13-8117) with it away from Slow Shutter Governor (18-0124) by 0.2 ~ 0.3mm. See Fig. 21.

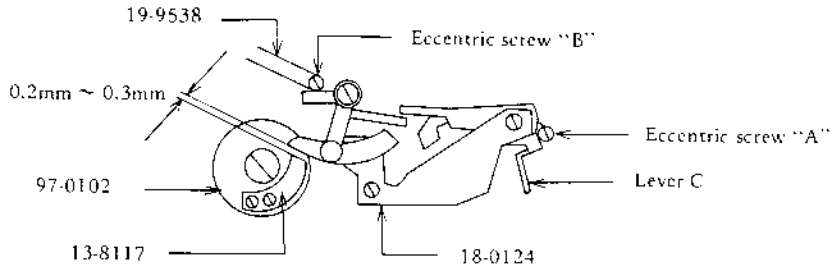


Fig. 21

2. Adjustment of slow Shutter

   1) Shutter speed 1/1 sec is to be adjusted by the eccentric screw A.

   2) 1/4 sec is to be adjusted by Slow Shutter Link Holder (13-8131). (See Para. 1.3)

   3) Where the slow Shutter cannot be adjusted by this procedure use the adjusting hole of Screw (X91-173012).

   4) Further, when the adjustment is impossible by procedures 2 and 3, make it using the eccentric screw B of Slow Shutter Link (19-9538).

   5) Alternately make the above adjustments until all speeds are within tolerance and well balanced.

   6) When Shutter is released at slow speed (1/4 ~ 1/1 sec), the anchor is cancelled simultaneously with 2nd Curtain closing, and Slow Governor should make no additional noise.
   Adjustment is to be made by bending Lever C.

   Notes: 1. Adjust the slow Shutter after adjustment of Curtain speed.

   2. Apply Diabond to the screw of Slow Shutter Link Holder.

3. Adjustment of Curtain speed

   1) Adjust the Curtain speed by means of PA-16 Transistor Shutter Tester.

   2) The Curtain speed when using 34mm Slit-4 is 13.0 ~ 14.5ms.

   3) Adjust the speed through Nut (13-0211) of Spring Drum Unit (18-0156).

   Note: After adjustment, apply Diabond to the Nut.

4. Adjustment of high-speed Shutter

   1) Adjust the Shutter speeds 1/250 and 1/125 sec with the eccentric screw of 2nd Curtain Release Lever.

   2) Adjust 1/1000 and 1/500 sec with Release Cam (13-8091). See Fig. 22.

   3) Shutter must be fully open at 1/60 sec. (The FTb has no independent "X" shutter speed.)

   4) Make adjustments alternately until all speeds are within tolerance and well balanced.

   Note: Check "B" (bulb) operation.

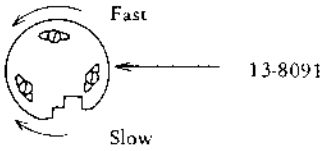
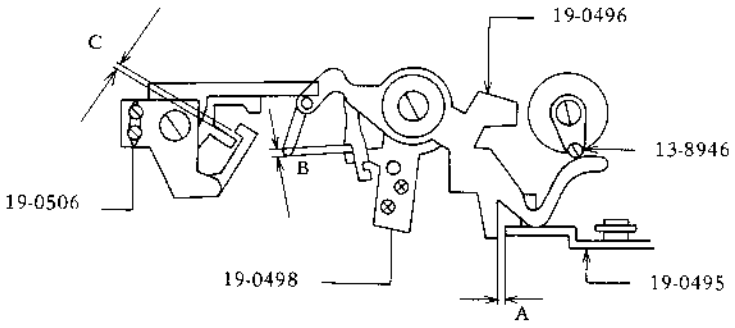


Fig. 22

If Release Cam is turned counter-clockwise, the shutter speed becomes high and vice versa.

2.12 Camera Bottom Lever Adjustments

1. Adjustment of charge amount of each Lever



Unit: mm

Symbol	Limit	Adjustment
A	Over 0.3	Select a suitable Screw (13-8946)
B	Over 0.3	Select a suitable Screw (13-8946)
C	0.1~0.2	Make adjustment by using the slot of Clamp Lever (19-0506)

Fig. 23

2. Mounting and adjusting Release Lever

1) Play at the clamped part of the Release Lever (19-0495) must be 0.03 ~ 0.08mm.

2) Adjust the play with Washer (X32-503120 ~ 2).

Note: Apply Launa 40 to the Release Lever shaft.

3. Mounting adjusting Diaphragm Release Lever

1) Vertical play of the clamped part of the Diaphragm Release Lever (19-0498) must be 0.03 ~ 0.08mm. Adjust the play with Washer (X32-504610 - 2).

2) Vertical play of the clamped part of Charge Lever (19-0496) must be 0.03 ~ 0.08mm. Adjust the play with Washer (X32-503130 and 1).

2.13 Meter Unit

Note: Exchange the Meter, CdS and Variable Resistor on the Meter Unit as a unit.

1. Mounting Following Needle

1) Mount the Following Needle (13-1317) horizontally with Plio bond.

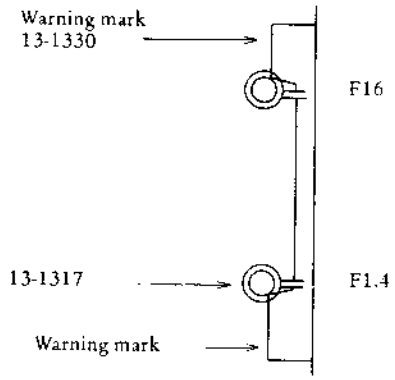


Fig. 24

2) At maximum aperture in FD Lens 50mm F 1.4, the inner diameter of the following needle should align the corner of the Warning Mark (13-1330). See Fig. 24.

3) When the aperture is stopped down to F16 in FD Lens F 1.4, the Warning Mark corner should be midway between the inside and outside diameters of the Following Needle. See Fig. 24.

2. Mounting and adjusting Meter Set Cam

Mount the Meter Set Cam (13-1281) properly referring to Fig. 25. (ASA100, 1/1000sec)
Make adjustment by aligning engagement of the Cam.

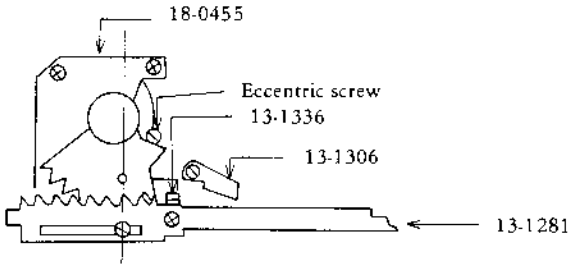


Fig. 25

3. Adjustment of Meter zero position

   1) Turn off the meter.

   2) At 1/4sec, ASA100, the needle of Meter Unit (18-0455) should be in the lower Warning Mark. See Fig. 26.
   Adjustment is made with the eccentric screw of the Meter (18-0455).

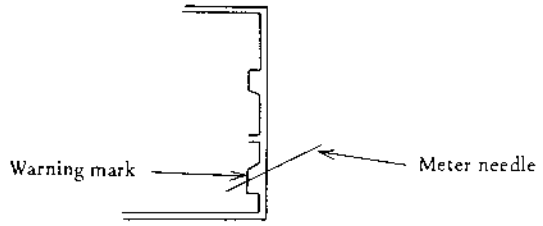


Fig. 26

4. Adjustment of Meter accuracy

   At the specified brightness, the Meter needle should be at the center of Following Needle (13-1317).

Meter K constant = 14

EV	ASA	Shutter speed	Aperture	cd/m^2	Limit	Part adjusted
4	100	1/8	F 1.4	2.218	0.5 F	Meter eccentric screw (Fig. 25) ND filter: See "4". Front Panel" in "Disassembly"
10	100	1/30	F 5.6	141.9	0.5 F	R1
15	100	1/1000	F 5.6	4542	0.5 F	R2

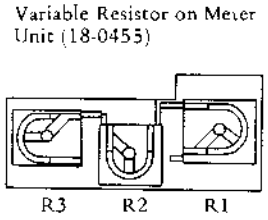


Fig. 27

5. Mounting and adjusting Warning Lever

   The Warning Lever (13-1306) should be completely actuated between 1/4 and 1/2 at ASA100.

6. Attaching Warning Mark

   1) Attach the Warning Mark (13-1308) Diabond.

   2) The Mark should be visable in the View Finder when the Shutter speed is between 1/2 sec and B at ASA 100 and not visable from 1/4 to 1/1000 sec. Make adjustment through Nut (13-1336) and Warning Lever (13-1306). See Fig. 25.

7. Adjustment of Battery Checker

   At a low voltage power supply 1.3V, deflection of the Meter (18-0455) needle should be as specified in Fig. 28.
   Limit: 0 to + 0.15mm (1.5 needle widths)
   Make adjustment with R3 of Meter Unit (18-0455). (ASA 100, 1/1000 sec) See Fig. 27.

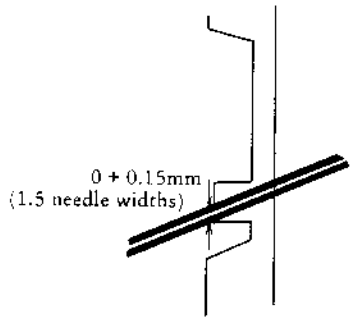


Fig. 28

2.14 Parts related to Front Panel (Mirror Box)

1. Adjustment of Correction Lever

Distance from the Mount face to the end of Max. Aperture Correction Lever (18-0457) is 0.9 ± 0.1mm.
Adjust the separation with the eccentric screw in Fig. 29.

Note: Use a slide calipers to measure to distance.

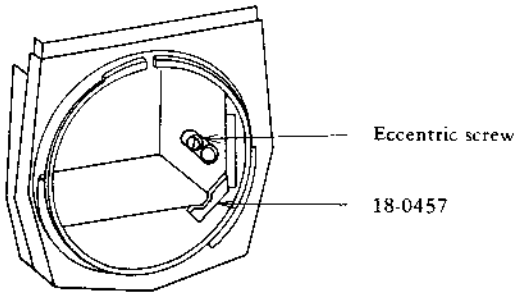


Fig. 29

2. Adjustment of Shutter

Release Lever release

1) The shutter should be released when separation between Mirror face and the shock absorber is 3.0 ± 1mm. See Fig. 30.
Make adjustment by bending Connecting Lever (13-1225).

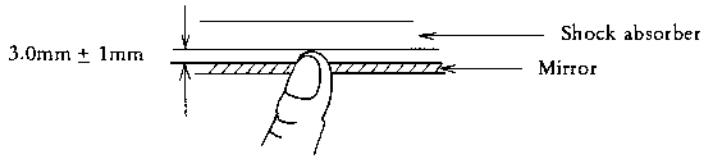
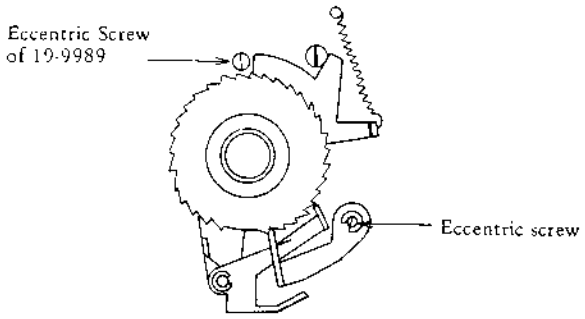


Fig. 30

2.15 Other parts (Film Counter, Synchro timelag and Range Finder)

1. Adjustment of Film Counter

For adjustment of film feeding, use both eccentric screws of Counter Connecting Lever (19-9989) and Film Counter Unit (18-0261). See Fig. 31.



k Fig. 31

2. Synchro timelag

Use 34mm Slit-4 for PA16 Transistor Shutter tester

Contact	Shutter speed	Line	Limit
FP	1/1000	A	10.5 ~ 13.5 ms
X	1/60	A	Over 0.5 ms
		B	Over 1.5 ms

Fig. 32

Tolerances shown in Fig. 32 should be met. Adjustment is to be made by changing clearance between contacts.

3. Adjustment of Range Finder

1) Flange back: 42.14 ± 0.02mm

Make adjustment with Washers (X32-502120 and X98-030125).

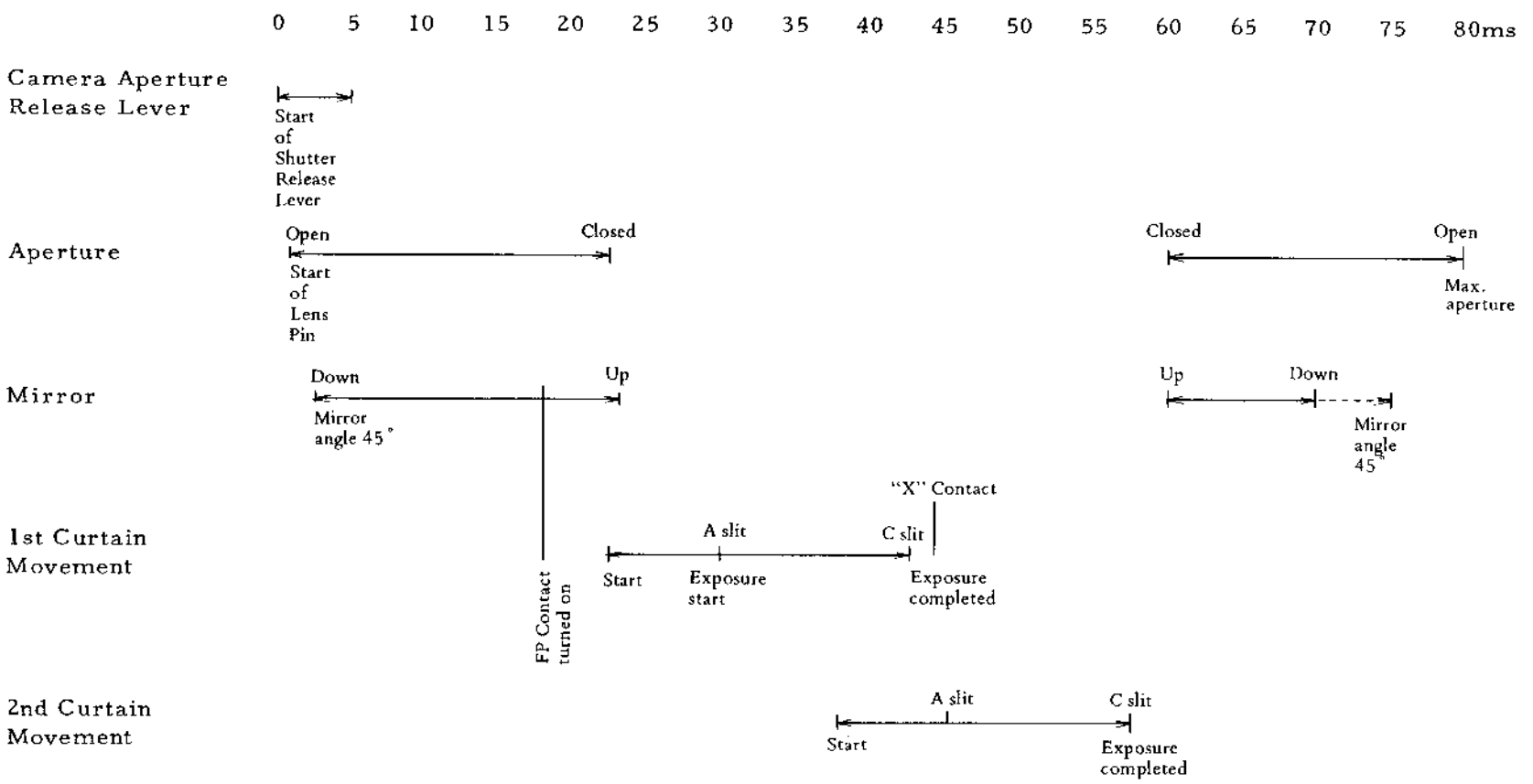
2) Finder back: 42.03 ± 0.005mm

Make adjustment with Washers (13-9088 and 13-9089). See Para. 1.5 in "Disassembly".
For fine adjustment, the Mirror angle may be changed very slightly.

3) For measurement of the finder back, use the standard of FD 50mm F 1.4 Lens and 2.5 Magnifier.

System Timing Chart

Shutter Speed: 1/16 sec.
Aperture: F 16 (FD 50mm 1 : 1.4)



CANON REPAIR GUIDE

CANON FTb-N

(REF. NO. 1-20398)

CANON INC. JAPAN

PREFACE

This Repair Guide is issued explain the additional repair procedures necessary to insure the continuing high quality of the FTb-N. These procedures are in addition to the ones outlined in the original FTb Repair Guide.

Any comments or suggestions concerning this guide should be mailed to:

Canon Inc.
Camera Service Department
P.O. Box #50
Tokyo Int. Airport
Japan

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Introduction

Replacement and Adjustment

1. Hot Shoe Interlock 1
2. Shutter Speed Indicator 1

INTRODUCTION

The new FTb (FTb-N) (1-20398) is a refined version of the original FTb which incorporates the following new features and changes:

1. Shutter speed visable in the viewfinder;
2. Flash terminal cover with hot shoe interlock for shock prevention;
3. Reduction of mirror bounce on the return stroke;
4. Improvement of shutter button feel;
5. "F-1" styling of the multi-purpose lever and lock lever;

Repair procedures for the FTb-N are identical to FTb procedures with the exception of adjustment of the shutter speed indicator and the hot shoe interlock. When cleaning or replacing the pentaprism, it is simpler to remove only the pentaprism instead of removing the pentaprism box. If the box is removed, the shutter speed indicator must be readjusted.

For any procedure not covered in this guide refer to the original FTb guide.

CANON INC., 1974
Printed in Japan

REPLACEMENT and ADJUSTMENT

1. Hot Shoe Interlock

The hot shoe interlock opens the circuit to the synchronization contact in the accessory shoe so the possibility of electrical shock when using an electronic flash connected to the regular PC socket and not mounted in the accessory shoe is eliminated.

1.1. Inspection

With the front panel removed, check the position of the flash terminal contacts (13-1541 and 13-1542). When they are in contact, the accessory shoe terminal is connected to body earth so it can be used. When the contacts are separated, the accessory shoe terminal is no longer earthed or connected to the PC connector, eliminating the possibility of shock. In principal, the contacts must separate before it is possible to install a synch plug into the regular (PC) flash terminal. The contacts must separate between line "A" and line "B" in figure 1. (The position can be checked, but not adjusted, with the front panel attached by checking continutity between the hot shoe and body when the shutter is released at 1/60 sec.)

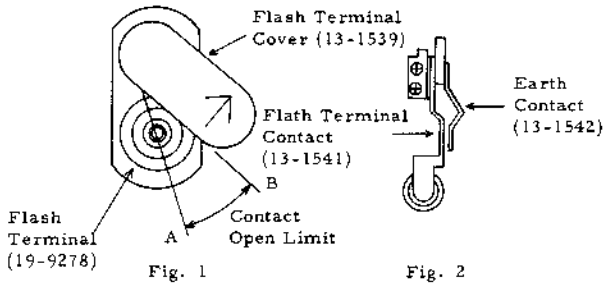


Fig. 1

Fig. 2

1.2. Adjustment

Bend Flash Terminal Contact (13-1541) to adjust the opening position.

2. Shutter Speed Indicator

2.1. Shutter Speed Index

Set pulley C (part of pentaprism box) in the position shown in figure 3 and glue Shutter Speed Index (13-1509) in place so the numeral "1000" is parallel with Mask (13-1330). Use "Diabond" or equivalent.

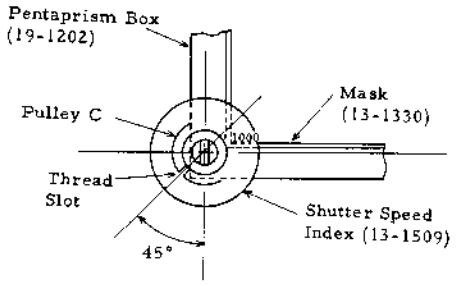


Fig. 3

2.2 Indicator Thread

a. Tie an overhand knot in one end of the thread and trim the end.
b. Set the shutter speed dial to 1/1000 sec.
c. Wind pully C three turns counter-clockwise to tension the spring.
d. Attach the knotted end of the thread and allow the pully to return one turn, winding the thread around the pully. See figures 4 and 5.

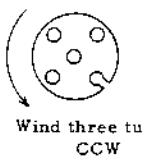


Fig. 4

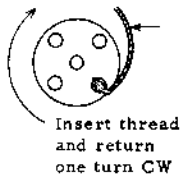


Fig. 5

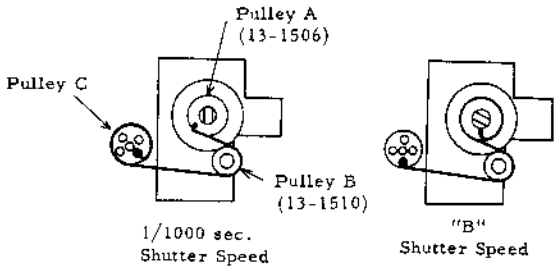


Fig. 6

e. Route the thread around pully B (13-1510) and into the slot on pully A (13-1506).
f. While keeping "1000" correctly positioned (Fig. 3) knot the pully A end of the thread, and trim the excess thread.
g. Apply a small dab of instantaneous bonding agent to the two knots. Do not put bond on any parts except the knots.
h. Turn the shutter speed dial between 1/1000 and "B" and check the indicator. (See figure 6.)

2.3. Fine Adjustment

Fine adjustment of the index position can be made by adjusting pully B (13-1510) which is mounted on an eccentric shaft. A special spanner (T0199-13-1512-1S) is used to make the adjustment. It fits on the shaft just under Pulley (13-1510).

Note: This adjustment should be made after cleaning the finder.

2.4. Viewfinder Cleaning

If the pentaprism and pentaprism box are removed as a unit, as is the normal practice with the original FTb; it is necessary to readjust the shutter speed indicator. It is therefore recommended to remove the pentaprism only whenever possible.

Canon SERVICE MANUAL REPORT

Issued by Camera Service Department, Canon Inc.

Report No. AC36-004 E

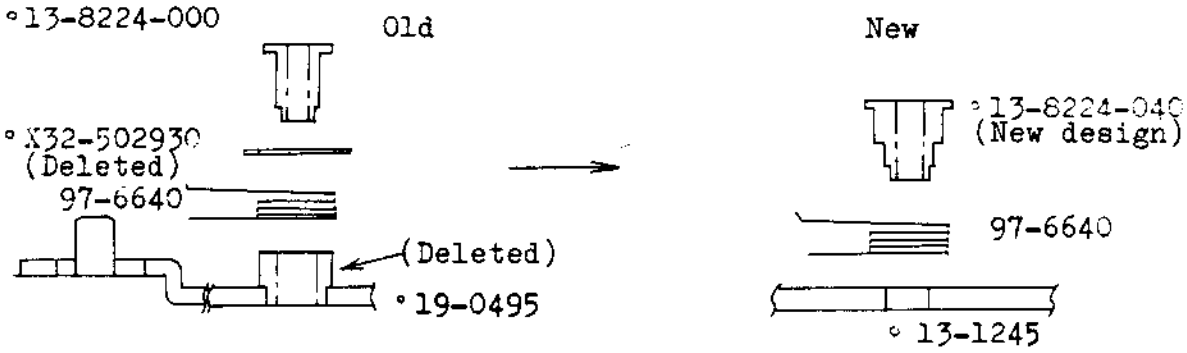
Service Manual No. C-036

Date 1973/9/24

Canon New FT-b Release Lever Change

1. Change

The riveted collar on Release Lever(19-0495)* has been deleted to prevent misalignment due to imperfect riveting. The pivot, Release Lever Shaft(13-8224) has been redesigned to work with the new Release Lever(13-1245) and Washer(X32-502930) is no longer used. (Repair Manual, pg. 10)



* Misprinted as 19-0459 in the parts list, pg. 10

2. Repair

Old and new parts are interchangeable as a set. Camera Service will stock the new lever and both shafts.

3. Classification

From : --01

Added Parts:

Class	Part No.	Qty.	Description
E	13-1245	1	Release Lever
E	13-8224-040	1	Release Lever Shaft

1. File this report in the service manual binder **New FTb** (C-036) **pg. 1/1**
2. Post additional parts, modified parts, etc. in the repair manual (disassembly drawings, parts list and index).
3. Check the file numbers of the service manual reports. If any are missing, request them from us.

Canon SERVICE MANUAL REPORT

Report No. AC36-003 E
Service Manual No. C-036
Date 1973/9/24

issued by Camera Service Department, Canon Inc.

Canon New FTb

The New FTb (1-20398) is basically similar to the FTb, but with several new features and refinements. This report is a listing of the changes and the parts added .

1. Shutter Speed visable in Viewfinder(Repair Manual, pg. 3, 9)

13-1503	Condenser Lens Box	13-1529	Collar
13-1506	Pulley	14-2419	Wire
13-1509	Shutter Speed Index	19-1202	Pentaprism Box
13-1510	Pulley	19-1208	Shutter Speed Selector Base
13-1523	Dust Cover	18-0674	Shutter Speed Selector

2. Winding Lever Tip(Repair Manual, pg. 1)

13-1513	Winding Lever	13-1514	Winding Lever Tip
(13-1518)	Winding Lever		

3. Flash Terminal Cover(Repair Manual, pg. 6,7)

13-1539	Flash Terminal Cover	13-1544	Leather
13-1540	Cover Plate	13-8369	Collar
13-1541	Flash Terminal Contact	19-1201	Front Panel
13-1542	Earth Contact	97-6995	Spring
13-1543	Cam		

1. File this report in the service manual binder New FTb (C-036) pg. 1/3
2. Post additional parts, modified parts, etc. in the repair manual (disassembly drawings, parts list and index).
3. Check the file numbers of the service manual reports. If any are missing, request them from us.

4. Self Timer Lever(Repair Manual, pg. 6)

13-1537	Index Plate	19-1206	Lock Lever
13-9640	Self Timer Index	19-1207	Self Timer Lever

5. Shutter Speed Dial(Repair Manual, pg. 1)

13-1278-040	Shutter Speed Dial	(18-0682)	Shutter Speed Dial (Unit)(Black)
13-1355	Shutter Speed Dial Holder	19-1210	Knurled Knob
13-1391	ASA Dial	(19-1211)	Knurled Knob(Black)
18-0681	Shutter Speed Dial(Unit)		

6. Shutter Release Improvement(Repair Manual, pg. 2)

13-1346	Shutter Button Sleeve	13-1533	Shutter Button Lock
13-1532	Shutter Button	(13-1534)	Shutter Button Lock (Black)

7. Mirror Shock Absorber(Repair Manual, pg. 7)

19-1203	Light Shield

8. Winding Mechanism Improvement(Repair Manual , pg. 1)

13-1513	Winding Lever	13-1528	Screw (pg. 10)
13-1516	Nut	13-1552	Washer
13-1517	Spring Washer	(19-1204)	Winding Lever Seat(Black)
(13-1518)	Winding Lever(Black)	19-1205	Winding Lever Seat
13-1520	Nut	19-1209	Winding Shaft (pg. 10)

9. Miscellaneous Parts

13-1530	Mask (pg. 3)	13-1549	Accessory Shoe (pg. 2)
13-1535	Light Shield (pg. 5)	96-0021	Coupling Gear*(pg. 3)
13-1536	Light Shield (pg. 5)		

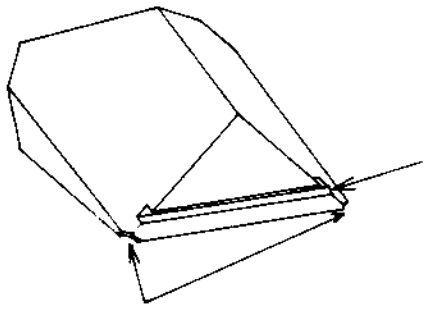
* Correct misprint "Caupling" ⟶ Coupling also.

10. Pentaprism

The Pentaprism(10-0233) has been changed slightly also by the addition of cut-off corners at the rear to provide clearance for the shutter speed indication.

Since the new prism can be used in the original FTb, the part number has not been changed, and Camera Service will stock the new prism only. Be sure to use the new type prism on the New FTb. The old type should be used on the original FTb only, if any remain in stock.

10-0233



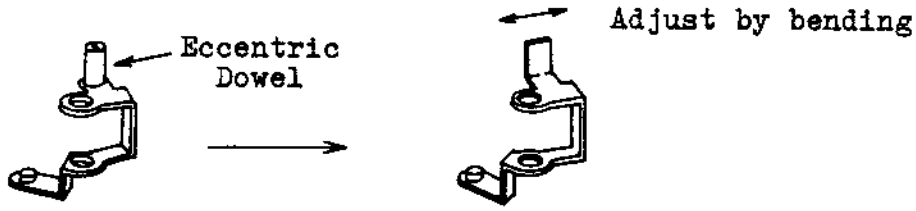
Note: It is not economically feasible to convert an FTb into a New FTb or add the shutter speed indication to a FTb.

Canon SERVICE MANUAL REPORT Report No. AC32-039 E
Service Manual No. C-032
Issued by Camera Service Department, Canon Inc. Date 1973/8/21

Canon FTb, Black FTb, TLb Counter Connecting Lever Change

1. Change

The eccentric dowel rivited onto Counter Connection Lever (19-9989) has a tendency to loosen if adjusted often. Therefore it has been replaced by a stamped ear. The adjustment is made by bending the ear.



19-9989

2. Repair

Old and new parts are interchangeable. Camera Service will eventually stock the new type only. The new lever should be adjusted by bending the ear along the long axis with slender long nose pliers.

3. Classification

FTb and Black FTb, From: --13
TLb, From: --04

---

1. File this report in the service manual binder FTb (C-032) pg. 1/1
2. Post additional parts, modified parts, etc. in the repair manual (disassembly drawings, parts list and index).
3. Check the file numbers of the service manual reports. If any are missing, request them from us.

Canon SERVICE MANUAL REPORT Report No.AC32-041 E
Service Manual No.C-032
Issued by Camera Service Department, Canon Inc. Date 1973/9/15

Differences between the Canon FTb (1-20395) and the New FTb-N (1-20398)

Several new features and refinements have been added to the FTb-N. Among the changes are an improved winding mechanism, improved shutter release stroke, shutter speeds visable in the viewfinder, a cover over the flash terminal and several other changes.

Since the FTb and FTb-N are basically the same camera, most of the parts, including some of the new parts, are interchangeable. Some parts are not interchangeable and some are not used in both models. Where possible the FTb-N parts will be stocked for both cameras. If not, naturally both parts will be stocked.

Comparison List

The entries in the comparison list ar the part name, part number for both FTb and FTb-N and data on interchangeability and availability of the parts.

Interchangeability (Inter. column)

1. "No" indicates that individual parts are not directly interchangeability.
2. "Yes" indicates that the parts are completely interchangeable.
3. "--" is used when there is no corresponding part in one of the cameras.
4. If there is limited interchangeability, it is noted in the remarks column.
   a. Change Unit: The entire unit is interchangeable but not the individual parts.
   b. New for Old OK: FTb-N parts can be used in FTb but not vice versa.

The availibity (Avail.) column is self explanatory.

Description	Part No. FTb	Part No. FTb-N	Inter.	&Avail.	Remarks
1. (Winding Lever Parts) (Pg. 1)					
Winding Lever Seat	13-1347	19-1205 (19-1204)	No	Both	
Nut	13-1349	-------	--	Yes	
Washer	13-1350	X98-080162	No	Both	
Spring Washer	13-8059	13-1517	No	Both	
Screw	13-8061-070	-------	--	Yes	
	(13-8676-010)	-------	--	Yes	
Nut	-------	13-1516	--	Yes	
	-------	(13-1520)	--	Yes	
Winding Shaft	19-0399-050	19-1209	No	Both	page 10
Winding Lever	19-9577	13-1513	No	Both	
Collar	97-1080	-------	--	Yes	
Winding Lever Tip	-------	13-1514	--	Yes	
Spacer	-------	13-9058	--	Yes	
2. (Shutter Dial Parts) (Pg. 1)					
Shutter Dial Unit	18-0433	18-0681	Yes	New	
	(18-0559)	(18-0682)	Yes	New	
Shutter Speed Dial	13-1278	13-1278-040	No	New	Change Unit
ASA Dial	13-1279	13-1391	No	New	Change Unit
Knurled Knob	19-0513	19-0210	Yes	New	
	(19-0997)	(19-1211)	Yes	New	
Coil Spring	97-5067	97-6997	Yes	New	
Shutter Speed Dial Holder	-------	13-1355	--	Yes	
3. (Shutter Release Parts) (Pg. 2)					
Shutter Button Sleeve	13-8167	13-1346	No	New	Change these parts as a set for the FTb
Shutter Button	13-9089	13-1532	No	New	
Shutter Button Lock	13-9090	13-1533	No	New	
	(13-9048)	(13-1534)	No	New	

Description	Part No. FTb	Part No. FTb-N	Inter.	&Avail.	Remarks
4. (Shutter Speed Indication Parts) (Pg. 3, 8 :FTb)(Pg. 3, 9 :FTb-N)					
Pentaprism	10-0233	10-0233	*	New	*New for Old OK
Pentaprism Box	13-1206	19-1202	No	Both	
Condenser Lens Box	13-1208	13-1503	No	Both	FTb-pg. 4 FTb-N-pg. 5
Shutter Speed Selector	18-0431	18-0674	*	New	*New for Old OK
Front Panel (Mirror Box)	19-0502	19-1201	No	Both	FTb-pg. 6 FTb-N-pg. 7
Shutter Speed Selector Base	19-0516	19-1208	*	New	*New for Old OK
Pulley	-------	13-1506	-	Yes	
Shutter Speed Index	-------	13-1509	-	Yes	
Pulley	-------	13-1510	-	Yes	
Dust Cover	-------	13-1523	-	Yes	
Collar	-------	13-1529	-	Yes	
Wire	-------	14-2419	-	Yes	
5. (Self Timer Lever Parts) (Pg. 5 or 6)					
Index Plate	13-1224	13-1537	**	Both	**The parts are physically interchangeable but they are visable parts so like parts should be used.
Pin Face Screw	13-8627	-------	-	Yes	
Self Timer Index	13-8923	13-9640	**	Both	
Self Timer Lever	19-0019-020	19-1207	**	Both	
Lock Lever	19-0484	19-1206	**	Both	
6. (Mirror Shock Absorber) (Pg. 6 or 7)					
Light Shield	13-1239	19-1203	Yes	New	

Description	Part No. FTb	Part No. FTb-N	Inter.&Avail.	Remarks
7. (Flash Terminal Cover Parts) (Fig. 5, 6 or 7)				
Earth Contact	13-1237	13-1542	No	Both
Leather	13-1296	13-1544	No	Both
Insulator	14-2086	-------	--	Yes
Front Panel	19-0502	19-1201	No	Both
Flash Terminal Cover	-------	13-1539	--	Yes
Cover Plate	-------	13-1540	--	Yes
Flash Terminal Contact	-------	13-1541	--	Yes
Cam	-------	13-1543	--	Yes
Collar	-------	13-8369	--	Yes
Spring	-------	97-6995	--	Yes

8. (Miscellaneous Parts)					FTb	FTb-N
X Contact	13-1219	13-1219	Yes	New	pg.8	pg.9
Light Shield	13-1273	13-1535	Yes	New	pg.4	pg.5
Mask	13-1330	13-1530	No	Both	pg.3	pg.3
Accessory Shoe	13-1320	13-1549	Yes	Both*	pg.2	pg.2
Light Shield	13-1339	13-1536	Yes	New	pg.4	pg.5
Lug	13-8142	-------	--	Yes	pg.8	----
Adjusting Washer	13-9086	13-1550	No	Both	pg.4	pg.5
Adjusting Washer	13-9088	-------	--	Yes	pg.4	----
Light Shield	19-0493	13-8632	Yes	New	pg.6	pg.5
Self Timer Starter	19-9716	13-8632	Yes	New	pg.7	pg.8
Coupling Gear	97-0352	96-0021	Yes	New	pg.3	pg.3
Spring	97-6638	97-6996	Yes	New	pg.6	pg.7

* Both 13-1320 and 13-1549 will be stocked until the stock of 13-1320 is depleted and then 13-1549 will be stocked for both the FTb-N and FTb.

Lug(13-8142) is not necessary when the new X Contact is used.

Note: It is not economically feasible to convert a FTb into a FTb-N or add the shutter speed indicator to a FTb.

Added Parts:

Class	Part No.	Qty.	Description
D	13-1219	1	X Contact
D	13-1298	1	Light Shield
D	13-1346	1	Shutter Button Sleeve
D	13-1532	1	Shutter Button
D	13-1533	1	Shutter Button Lock
D	13-1534	1	Shutter Button Lock
D	13-1535	1	Light Shield
D	13-1536	1	Light Shield
D	13-1549	1	Accessory Shoe
D	13-8632	1	Self Timer Starter
D	18-0674	1	Shutter Speed Selector
D	19-1203	1	Light Shield
D	19-1208	1	Shutter Speed Selector Base
C	96-0021	1	Coupling Gear
D	97-6996	1	Spring
D	97-6997	1	Coil Spring

Canon SERVICE MANUAL REPORT

Serial No. AC 32-004 E

Service Manual No. C-032

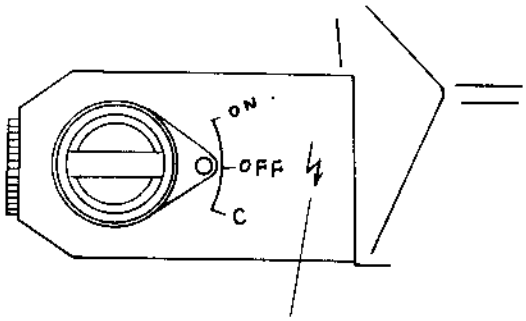
Issued by Camera Service Department, Canon Inc.

Date 1971 / 7 / 26

Canon FTb, Black FTb, Flash Mark Addition

1. Change

For correct exposure with the Canon Speedlite 133D, the FTb meter must be off. Therefore the Flash symbol has been added next to the OFF mark on the meter shitch.



Flash Mark

Canon SERVICE MANUAL REPORT Serial No. AC32-005 E

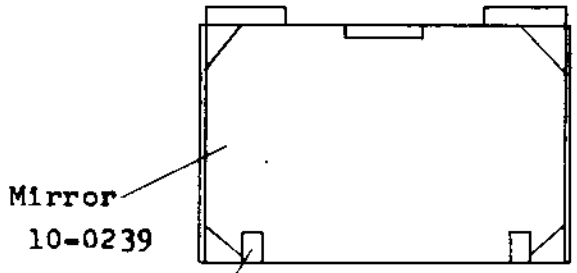
Service Manual No. C-032

Issued by Camera Service Department, Canon Inc. Date 1971 / 8 / 2

Canon FTb Service Parts Change(Mirror Replacement)

1. Change

Mirror(10-0239) and Spring(97-7518) have been added to the Service Parts list so the mirror can be changed without removing the mirror box as is necessary when changing the mirror unit.



Y00-1288

2. Repair

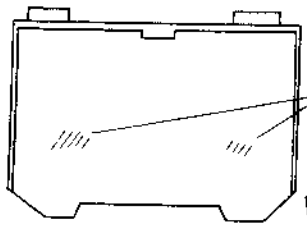
To change the mirror without removing the mirror box use the following procedure.

2.1 Disassembly

1. Apply a small amount of solvent (ME Ketone) to the two springs and remove them.
2. Put solvent between the mirror and the mirror base and remove the mirror.
3. Clean the mirror base with solvent.

2.2 Assembly

Note: Do not remove the protective tape from the mirror until finished.
1. Apply Plyobond to the mirror base as shown in the drawing.
2. Carefully slip the mirror under the spring at the back of the base.
3. Apply Diabond to the Springs (97-7518) x 2 and push the springs in place.



Canon SERVICE MANUAL REPORT

Serial No. AC32-006 E

Service Manual No. C-032

Issued by Camera Service Department, Canon Inc.

Date 1971 / 8 / 26

Canon FTb Pentaprism Improvement

1. Change

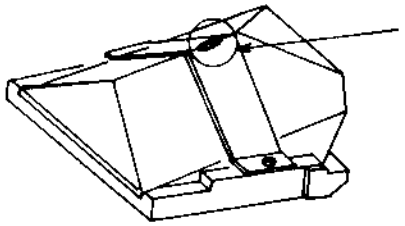
   The silver coating method for Pentaprism(10-0233) has been improved to prevent coating separation.

2. Repair

   Old and new prisms are interchangeable. Camera Service will stock only new prisms. If a customer complains of coating separation, install a new prism.

3. Classification

   Cameras with the new prism have a white dot on the prism unit as shown below.



White Dot indicates New Prism

Canon SERVICE MANUAL REPORT

Serial No. AC32-007 E

Service Manual No.C-032

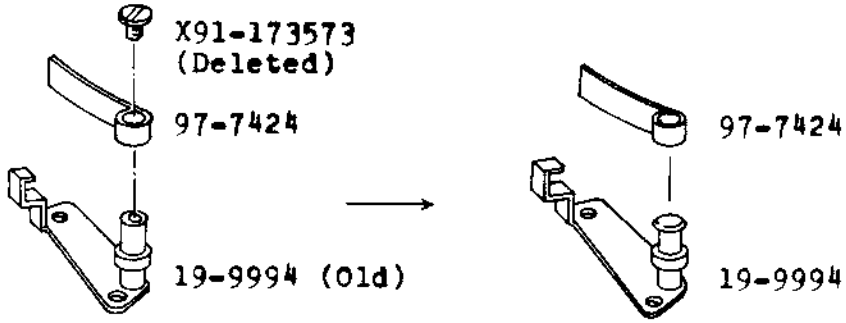
Issued by Camera Service Department, Canon Inc.

Date 1971 / 11 / 19

Canon FTb Brake Base Change

1. Change

2nd Curtain Brake Base(19-9994) has been redesigned so that Screw(X91-173537) is no longer required and is deleted.Brake Band(97-7424) is now pressed onto the base.



2. Repair

Old and new parts are interchangeable. Camera Service will stock the old parts until the stock is depleted.

Canon SERVICE MANUAL REPORT

Serial No. AC 32-009 E

Service Manual No C-032

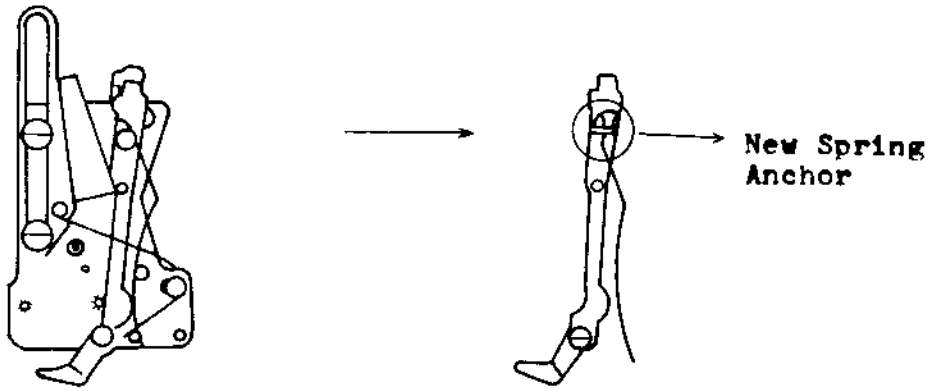
Issued by Camera Service Department, Canon Inc.

Date 1971 / 10 / 12

Canon FTb Maximum Aperture Correction Lever Unit Change

1. Change

Due to results of severe vibration test, it has been found that the spring shown in the drawing can come off of the dowel. Therefore the end of the spring is now held in a hole rather than around the dowel.



18-0457

2. Repair

No complaints are expected since this problem occured under heavy and protracted vibration. Camera Service will stock both types until the supply of the old type is exhausted.

Canon SERVICE MANUAL REPORT

Serial No. AC 32-010 E

Service Manual No. C-032

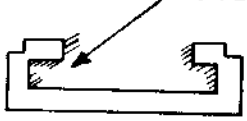
Issued by Camera Service Department, Canon Inc.

Date 1971 / 10 / 12

Canon FTb Accessory Shoe Change

1. Change

Poor contact between the Speedlite 133D side(earth) contact and the FTb Accessory Shoe sometimes causes the meter needle to deflect to the maximum upper position or to vibrate erratically. This poor contact is caused by the surface characteristics of the Nickel Chrome plating. To remedy this problem, the inside surface of the accessory shoe is plated with Nickel plating instead of Nickel Chrome.



13-1320

2. Repair

Camera Service will stock new parts only. If a customer has a 133D Speedlite, install the new type accessory shoe if available or rub the inside of the old shoe with ink eraser to smoothen the surface. This should remove the peaks from the Nickel Chrome plating.

Canon SERVICE MANUAL REPORT

Serial No. AC32-011 E

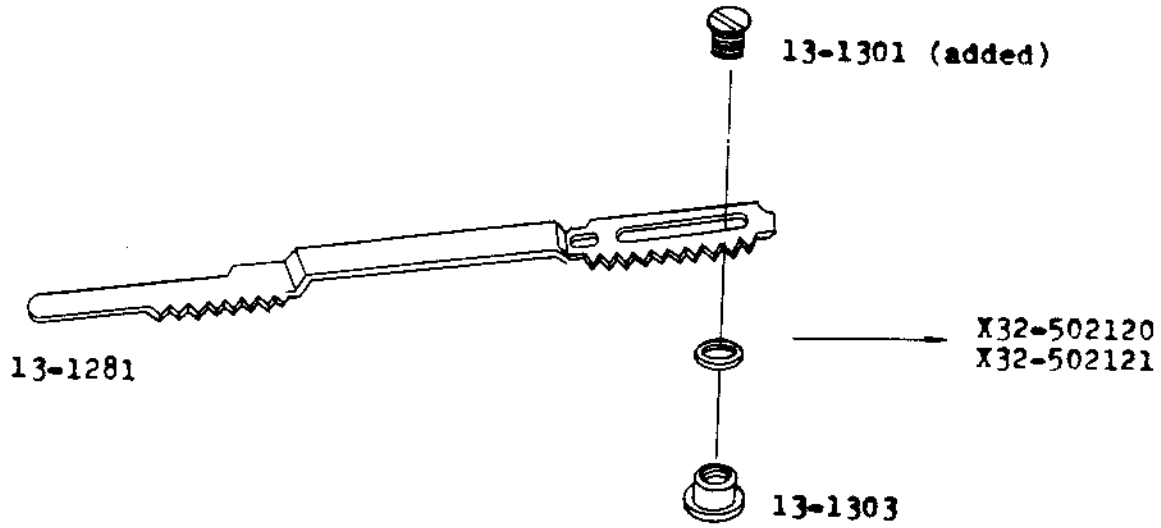
Service Manual No. C-032

Issued by Camera Service Department, Canon Inc.

Date 1971 / 10 / 28

Canon FTb Service Parts Addition

Add the following parts to page 2 of the Repair Manual and to the Price List.



Class	Part No.	Qty	Description	Price
D	13-1301	1	Screw	$0.05
D	13-1302	1	Collar	0.05
	X32-502120 X32-502121	1	Washer	0.01

Canon SERVICE MANUAL REPORT

Issued by Camera Service Department, Canon Inc.

Serial No. AC32-013 E

Service Manual No. C-032

Date 1971 / 11 / 20

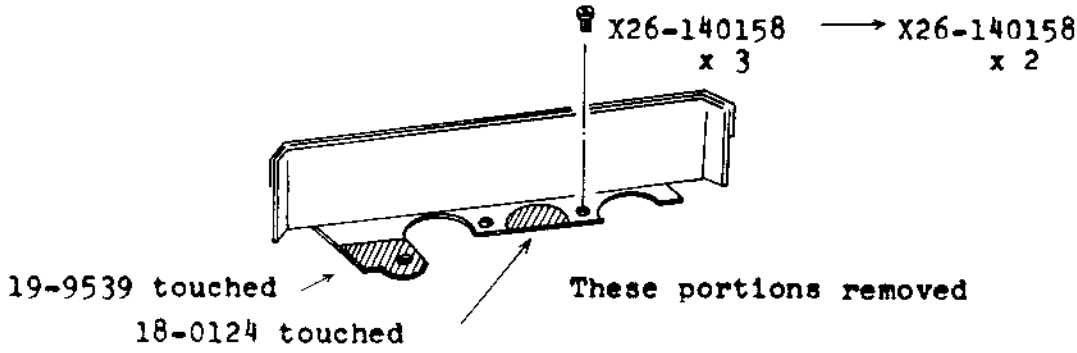
Canon FTb, Black FTb Light Shield Change

1. Change

Achor Release Link(19-9539) and part of the Slow Shutter Governor(18-0124) sometimes touch part of Light Shield(19-0284), so the light shield has been redesigned.

Note: The screw hole for the one screw deleted by this change is still present in the body casting, but it causes no problem. It will be eliminated in the next casting series.

Repair Manual , pg. 11



2. **Repair**

Old and new parts are interchangeable. New parts only will be stocked. It is not necessary to put a screw in the empty hole if the new light shield is used in an older body.

Canon SERVICE MANUAL REPORT

Serial No. AC32-014 E

Service Manual No. C-032

Issued by Camera Service Department, Canon Inc.

Date 1972/1/7

Canon FTb , BLACK FTb Screw Change

1. Change

The screws for Cassette Holder(13-8862) have been changed from slotted (-) to crosspoint (+) head screws.
Repair Manual Pg. 4

Old	New
X93-140033 x 2	X91-142536 x 2

2. Repair

Change both screws if either one is changed.

Canon SERVICE MANUAL REPORT

Serial No. AC32-015 E

Service Manual No. C-032

Issued by Camera Service Department, Canon Inc.

Date 1972/1/7

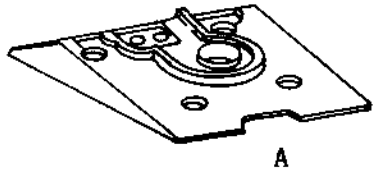
Canon FTb Accessory Shoe Changes

1. Changes

To prevent accidental flashing of non-Canon "hot shoe" flash units, a raised collar has been added around the flash contact so the large contact of some units cannot touch the flash contact and common (earth) at the same time.
The Accessory Shoe(13-1320) has been narrowed to prevent misallignment of non-Canon "hot shoe" flash units which sometimes results in the flash not firing. Other parts shown have been changed as a result of these two changes.

(Unit: mm)

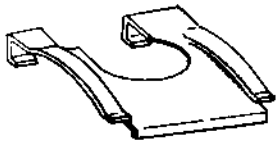
13-1322



Raised collar added

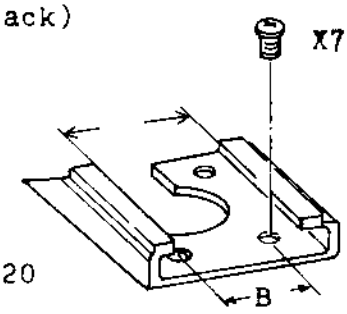
	Old	New
"A" changed	10.4	9.0

13-1321
(13-9045 Black)



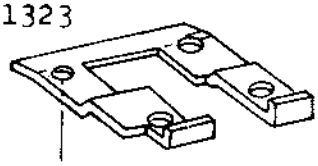
X71-5178 changed from 3 screws to one

13-1320

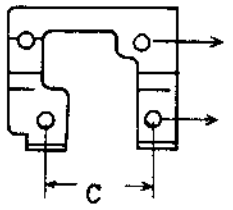


	Old	New
"B" changed	10.4	9.0
Thickness changed	1.0	1.3
"C" changed	10.4	9.0

13-1323



X40-170908 changed from one to two screws



changed from 1.7 to 2.0mm threaded

2. Repair

Individual old and new parts cannot be interchanged, but the new parts can be installed on any FTb if all the parts are changed.

Install the parts if either of the problems explained in 1. occure.

Canon SERVICE MANUAL REPORT

Serial No. AC32-016 E

Service Manual No. C-032

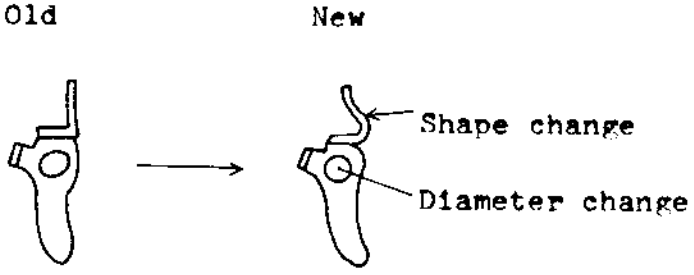
Issued by Camera Service Department, Canon Inc.

Date 1972/2/24

Canon FTb Self Timer Change

1. Change

To prevent the self timer from failing to set when wound, the following changes have been made.

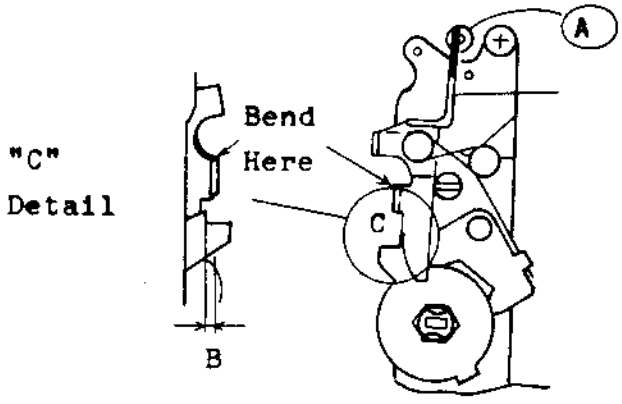


Metal Hardness changed to (HV550-580)

2. Repair

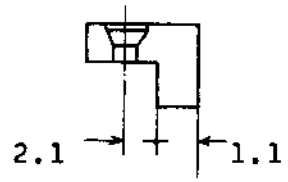
Old self timers can normally be adjusted to work by bending the tab shown toward the main body of the self timer.(This reduces the "B" dimension shown in the partial drawing.)

It is not recommended to bend the top of the lever "A" since this normally produces a temporary fix only.



2. Repair

The new parts can be installed in the old bodys but a Special Service Part, Cushion(Y00-1448) must be used instead of the production cushion. The special part is designed for the old body and the new parts. Install the new parts if necessary.



Camera Service will stock only the new Body(18-0489), Charge Lever(19-0621) and Diaphragm Charge Lever(19-0624). All the cushions: Old (13-9589), New (13-9589-050) and Special Service Part (Y00-1448) will be stocked.

Added Parts List

Class	Part No.	Qty.	Description	Price
D	Y00-1447	1	Cushion	$0.05

Note: This part should be used only in old bodies with new levers.

Canon SERVICE MANUAL REPORT

Issued by Camera Service Department, Canon Inc.

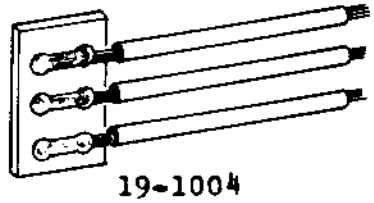
Serial No. AC32-017 E

Service Manual No. C-032

Date 1972/2/9

Canon FTb Service Parts Addition

Lug(19-1004) which is used as a tie point for leads from the accessory shoe to the body was originally part of the Top Cover[19-0503(Chrome)or 19-0995(Black)] but it is now a separate service part.



19-1004

Added Parts:

Class	Part No.	Qty.	Description	Price
C	19-1004	1	Lug	$0.10

Canon SERVICE MANUAL REPORT

Report No. AC32-018 E

Service Manual No. C-032

Issued by Camera Service Department, Canon Inc.

Date 1972/4/19

Canon FTb, TLb Meter Unit Parts Changes

The FTb and TLb meter unit included the meter, CdS and Variable Resistors, but they are now available as separate service parts.

Deleted Parts:

FTb	Meter Unit	Y00-1294
TLb	Meter Unit	Y00-1458

Added Parts:

	Class	Part No.	Qty.	Description	Price
FTb					
	C	18-0455	1	Meter Unit	$4.85
	C	18-0456	1	CdS Unit	1.55
	C	18-0464	1	Variable Resistor Unit	0.50
TLb					
	C	18-0455	1	Meter Unit	4.85
	C	18-0562	1	CdS Unit	1.55
	C	18-0575	1	Variable Resistor Unit	0.70

1. File this report in the service manual binder
2. Post additional parts, modified parts, etc. in the repair manual (disassembly drawings, parts list and index).
3. Check the file numbers of the service manual reports. If any are missing, request them from us.

Canon SERVICE MANUAL REPORT

Report No. AC32-019 E

Service Manual No. C-032

Issued by Camera Service Department, Canon Inc.

Date 1972/11/10

Canon TLb Shutter Oil Change

1. Change

   Early TLb shutters were lubricated with "Low Temp EP oil. In cold weather the high shutter speeds on these cameras become too fast.

   Astro oil is now used instead of Low Temp EP in the following places on these cameras.

   1st Curtain Gear (Y00-0622) (Upper and lower bearings)

   1st Curtain Drum (18-0155) (Lower side only)

2. Repair

   In cold climates, clean and re-oil with astro oil if this problem occures.

1. File this report in the service manual binder FTb (C-032)
2. Post additional parts, modified parts, etc. in the repair manual (disassembly drawings, parts list and index).
3. Check the file numbers of the service manual reports. If any are missing, request them from us.

Canon SERVICE MANUAL REPORT

Report No. AC32-020 E

Service Manual No. C-032

Issued by Camera Service Department, Canon Inc.

Date 1972/5/23

Canon FTb, TLb Parts Change

1. Change

A light shield (13-8540) was used to stop any possible reflection. It was bonded in place on the head of Screw(X96-172229) which holds Swing Up Lever(19-0487). The bond would sometimes run and cause the lever to stick. Therefore the light shield has been deleted and a special screw painted with FF paint is used. FF (Flat Flat Black) is a special non reflecting, scratch resistant paint.

2. Repair

Old and new parts are interchangeable. If the Swing Up Lever sticks, clean all effected parts, take out the light shield and old screw and install the new Screw(X99-0115).

3. Parts Changes

Deleted Parts:

		Repair Manual Page:
Light Shield	13-8540	FTb pg. 6, TLb pg. 5
Screw	X96-172229	pg. 6, pg. 5

Added Parts:

Class	Part No.	Qty.	Description	Price
	X99-0115	1	Screw(Non Reflecting)	$0.01

1. File this report in the service manual binder FTb , TLb (C-032)
2. Post additional parts, modified parts, etc. in the repair manual (disassembly drawings, parts list and index).
3. Check the file numbers of the service manual reports. If any are missing, request them from us.

Canon SERVICE MANUAL REPORT Report No.AC32-022 E
Service Manual No. C-032
Issued by Camera Service Department, Canon Inc. Date 1972/10/11

Canon FTb TLb Shutter Curtain Change

1. Change

To prevent problems due to aging and temperature varaitions, changes have been made to the shutter.

1. The Shutter Curtains(19-9511, 19-9512) are now rubber coated on only one side instead of two.
2. Flange (13-8519) [Aluminum] has been changed to Flange (14-2221) [Brass]
3. Oiling procedures have been changed to prevent shutter speeds from becoming too fast in cold weather. "Low-Temp-EP" was used at all oil points but now"Astro oil" should be used at the points listed.
   First Curtain Gear (Y00-0622) both upper and lower bushing.
   First Curtain Drum (18-0155) Shaft and lower bushing only.

2. Repair

For shutter problems due to low temperture operation, change the curtains and clean and re-oil the shutter.
For cameras with high shutter speed instability problems, change the flange to the new type(14-2221).

3. Classification

Cameras with the listed or higher classification number have the new parts installed at the factory.

FTb : M510
TLb : M501

Added Parts:

Class	Part No.	Qty.	Description	Price(Japan Yen)
D	14-2221	1	Flange	¥ 15

---

1. File this report in the service manual binder FTb (C-032) pg.1/1
2. Post additional parts, modified parts, etc. in the repair manual (disassembly drawings, parts list and index).
3. Check the file numbers of the service manual reports. If any are missing, request them from us.

Canon SERVICE MANUAL REPORT

'72.7.14 H.FER

Issued by Camera Service Department, Canon Inc.

Report No. AC32-024 E

Service Manual No. C-032

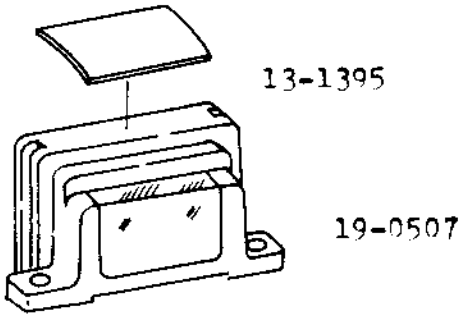
Date 1972/6/30

Canon TLb Part Number Changes

The following part numbers have been changed for the reason shown.

Old Number	New Number	Reason	Repair Manual Page
13-1391	13-1279	Referance AC32-023E	1
19-1016	Y16-0020	" " "	1
19-1027	19-0997	" " "	1
13-1376	13-1208	Part Interchangeability with FTb	3
13-1390	13-1331	" " " " "	2
19-1017	19-0507	" " " " "	2
19-1018	19-0502	" " " " "	5

Light Shield(13-1240) has been replaced by Light Shield(13-1395) which is larger. (Repair Manual, pg. 2)



Added Parts:

Class	Part No.	Qty.	Description	Price
E	13-1208	1	Condenser Lens Box	$0.35
D	13-1279	1	ASA Dial	0.05
D	13-1331	1	Vinyl Tape	0.05
C	13-1395	1	Light Shield	0.05
E	19-0502	1	Front Panel(Mirror Box)	2.20*
D	19-0507	1	Eyepiece	1.65
C	19-0997	1	Knurled Knob	0.65
C	Y16-0020	1	Shutter Speed Dial	0.10

* Change price in FTb price list also.

Index of Parts Numbers Change: Delete X91-137190-- 9 and change X91-143190 -- 9 to X91-173190 -- 9.

1. File this report in the service manual binder **FTb (C-032) TLb Repair Manual**
2. Post additional parts, modified parts, etc. in the repair manual (disassembly drawings, parts list and index).
3. Check the file numbers of the service manual reports. If any are missing, request them from us.

Canon SERVICE MANUAL REPORT

Report No. AC32-023 E

Service Manual No. C-032

Issued by Camera Service Department, Canon Inc.

Date 1972/6/6

Canon TLb Shutter Speed Dial Unit Part Number Change

In the TLb Repair Manual on page 1, change the part number of the Shutter Speed Dial from 18-0565 to 18-0593.

Added Part

Class	Part No.	Qty.	Description	Price
C	18-0593	1	Shutter Speed Dial	$0.95

1. File this report in the service manual binder FTb (C-032)
2. Post additional parts, modified parts, etc. in the repair manual (disassembly drawings, parts list and index).
3. Check the file numbers of the service manual reports. If any are missing, request them from us.

CANON REPAIR MANUAL

CANON TLb

(REF. NO. 1-20397)

CANON INC. JAPAN

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METER UNIT メーターユニット 2

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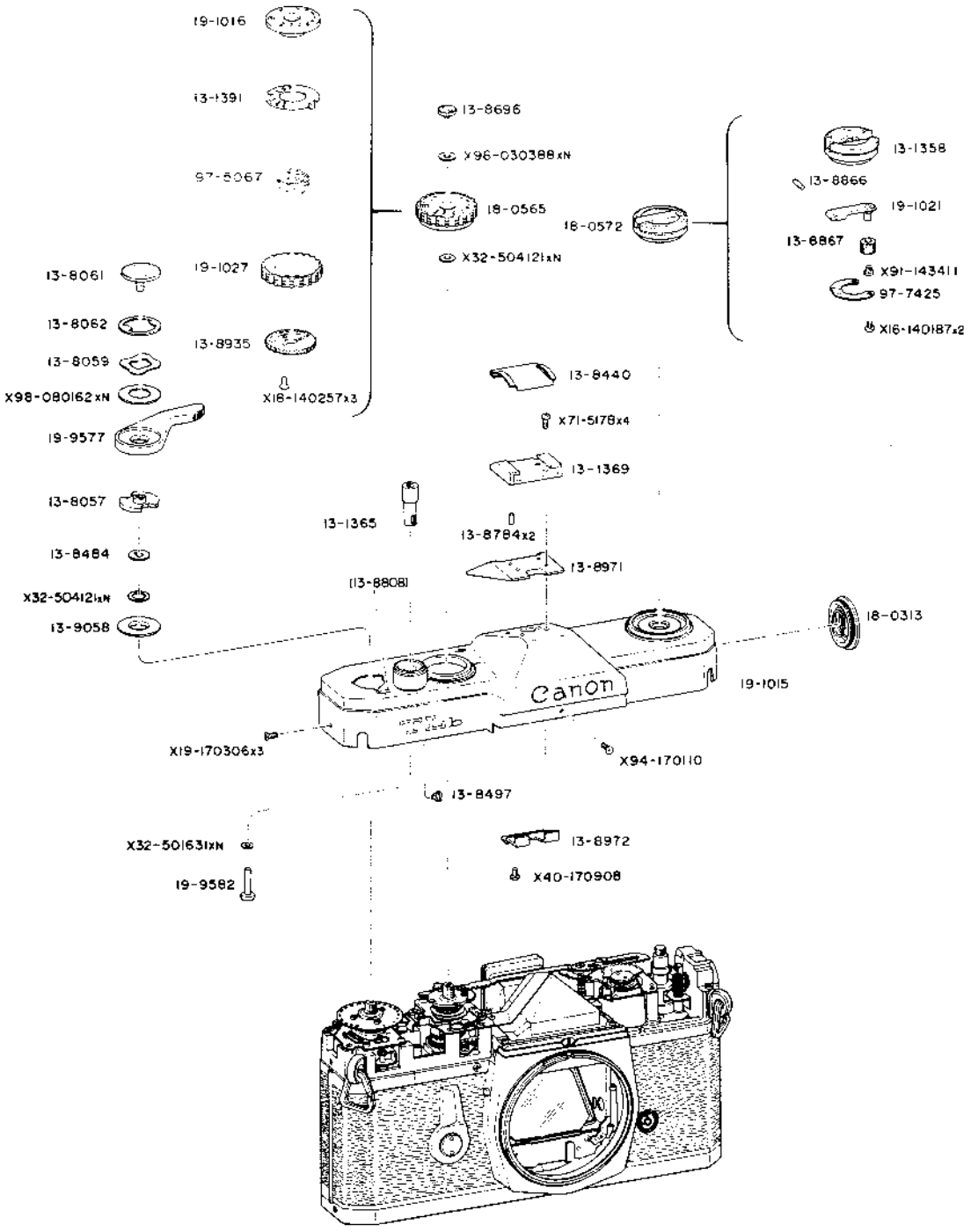
REF. NO. 1-20397

EXPLODED VIEW
of
CANON TLb



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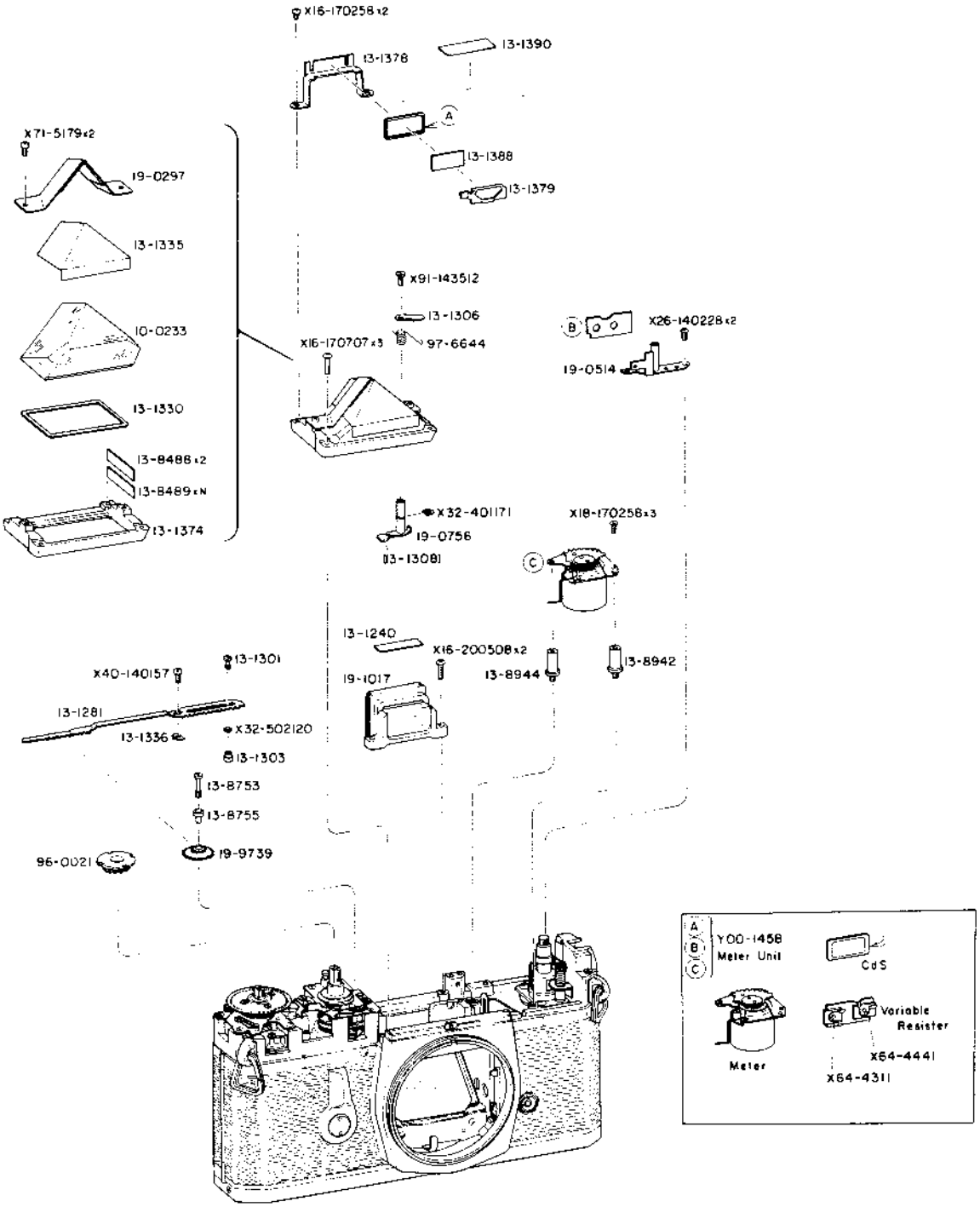
PARTS LIST

TOP COVER, SHUTTER SPEED DIAL & REWIND CRANK
上部カバー　シャッタースピードダイヤル　巻き戻しクランク

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
巻き戻しクランクつまみ	E	13-1358	1	Rewind Crank Knob
シャッター釦	D	13-1365	1	Shutter Button
アクセサリーシュー	D	13-1369	1	Accessory Shoe
ASA ダイアル	D	13-1391	1	ASA Dial
巻き上げレバー座	D	13-8057	1	Winding Lever Seat
スプリングワッシャー	D	13-8059	1	Spring Washer
カニ目ビス	C	13-8061	1	Pin Face Screw
ワッシャー	D	13-8062	1	Washer
板ハネ	C	13-8440	1	Plate Spring
ワッシャー	D	13-8484	1	Washer
カイドビス	D	13-8497	1	Guide Screw
カニ目ビス	C	13-8696	1	Pin Face Screw
ストッパーピン	D	13-8784	2	Stopper Pin
カウンター窓	C	13-8808	1	Counter Window
蝶番軸	E	13-8866	1	Pivot
つまみ	E	13-8867	1	Rewind Knob
ASA セット盤	E	13-8935	1	ASA Setting Disk
アクセサリーシュー台	D	13-8971	1	Accessory Shoe Base
アクセサリーシュー止め板	D	13-8972	1	Shoe Rest Base
スペーサー	C	13-9058	1	Spacer
電池室ふた	C	18-0313	1	Battery Cover
シャッタースピードダイアル	C	18-0565	1	Shutter Speed Dial
巻き戻しクランクユニット	D	18-0572	1	Rewind Crank Unit
上部カバー	C	19-1015	1	Top Cover
シャッター文字盤	D	19-1016	1	Shutter Speed Dial
巻き戻しクランク	D	19-1021	1	Rewind Crank
シャッターダイアルつまみ	C	19-1027	1	Knurled Knob
巻き上げレバー	D	19-9577	1	Winding Lever
シャッター釦軸	D	19-9582	1	Shutter Button Shaft
コイルスプリング	D	97-5067	1	Coil Spring
クリックスプリング	D	97-7425	1	Click Spring
十字ナベビス		X16-140187	2	Screw
十字皿ビス		X18-140257	3	Screw
十字丸皿ビス		X19-170306	3	Screw
ワッシャー		X32-501631	N	Washer
調整ワッシャー		X32-504121 X32-504122	N	Adjusting Washer
十字ナベビス		X40-170908	1	Screw
十字ナベビス		X71-5178	4	Screw
皿ビス		X94-170110	1	Screw
ワッシャー		X98-030388	1	Washer
ワッシャー		X98-080162	N	Washer

EXPLODED VIEW
of
CANON TLb



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PARTS LIST

PENTAPRISM & METER UNIT
ペンタプリズム　メーターユニット

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
メーターユニット	C	Y00-1458	1	Meter Unit
ペンタプリズム	C	10-0233	1	Pentaprism
遮光板	D	13-1240	1	Light Shield
メーターセットカム	C	13-1281	1	Meter Set Cam
平ビス	D	13-1301	1	Screw
カラー	D	13-1303	1	Collar
警告レバー	D	13-1306	1	Warning Lever
警告マーク	C	13-1308	1	Warning Mark
マスク	D	13-1330	1	Mask
ペンタプリズムカバー	C	13-1335	1	Pentaprism Cover
ナット	D	13-1336	1	Nut
ペンタボックス	E	13-1374	1	Pentaprism Box
CdS保持板	D	13-1378	1	CdS Holder
ND フィルター保持板	D	13-1379	1	ND Filter Holder
ND フィルター CdSの感度調整に使用する。（）内の数字は透過率を示す（単位%）	D	13-1388(50.0) 13-1388(55.0) 〃 13-1388(90.0) 13-1388(95.0)	1	ND Filter Used to adjust CdS Sensitivity The number in parenthesis indicates the transmission percentage.
ビニールテープ	D	13-1390	1	Vinyl Tape
スペーサー （）内の数字は厚さを示す（単位mm）	D	13-8488(0.20) 13-8488(0.30) 13-8488(0.50)	2	Spacer Number in parenthesis indicates spacer thick ness in mm.
スペーサー （）内の数字は厚さを示す（単位mm）	D	13-8489(0.10) 13-8489(0.20)	N	Spacer Number in parenthesis indicates spacer thickness in mm.
ピニオン軸	E	13-8753	1	Pinion Shaft
カラー	D	13-8755	1	Collar
メーター取り付け柱	E	13-8942	1	Meter Support
メーター取り付け柱	E	13-8944	1	Meter Support
ペンタプリズム押え	D	19-0297	1	Pentaprism Holder
メーター取り付け地板	D	19-0514	1	Meter Support Base
警告レバー	D	19-0756	1	Warning Lever
アイピース	D	19-1017	1	Eyepiece
アイドルギヤー	D	19-9739	1	Idle Gear
連動ギヤー	D	96-0021	1	Coupling Gear
スプリング	D	97-6644	1	Spring
十字ナベビス		X16-170258	2	Screw
十字ナベビス		X16-170707	3	Screw
十字ナベビス		X16-200508	2	Screw
十字皿ビス		X18-170258	3	Screw
十字ナベビス		X26-140228	2	Screw
緊定ワッシャー		X32-401171	1	Retaining Washer
ワッシャー		X32-502120	1	Washer
十字ナベビス		X40-140157	1	Screw
半固定抵抗		X64-4311	1	Variable Resistor
半固定抵抗		X64-4441	1	Variable Resistor
十字ナベビス		X71-5179	2	Screw
平ビス		X91-143512	1	Screw

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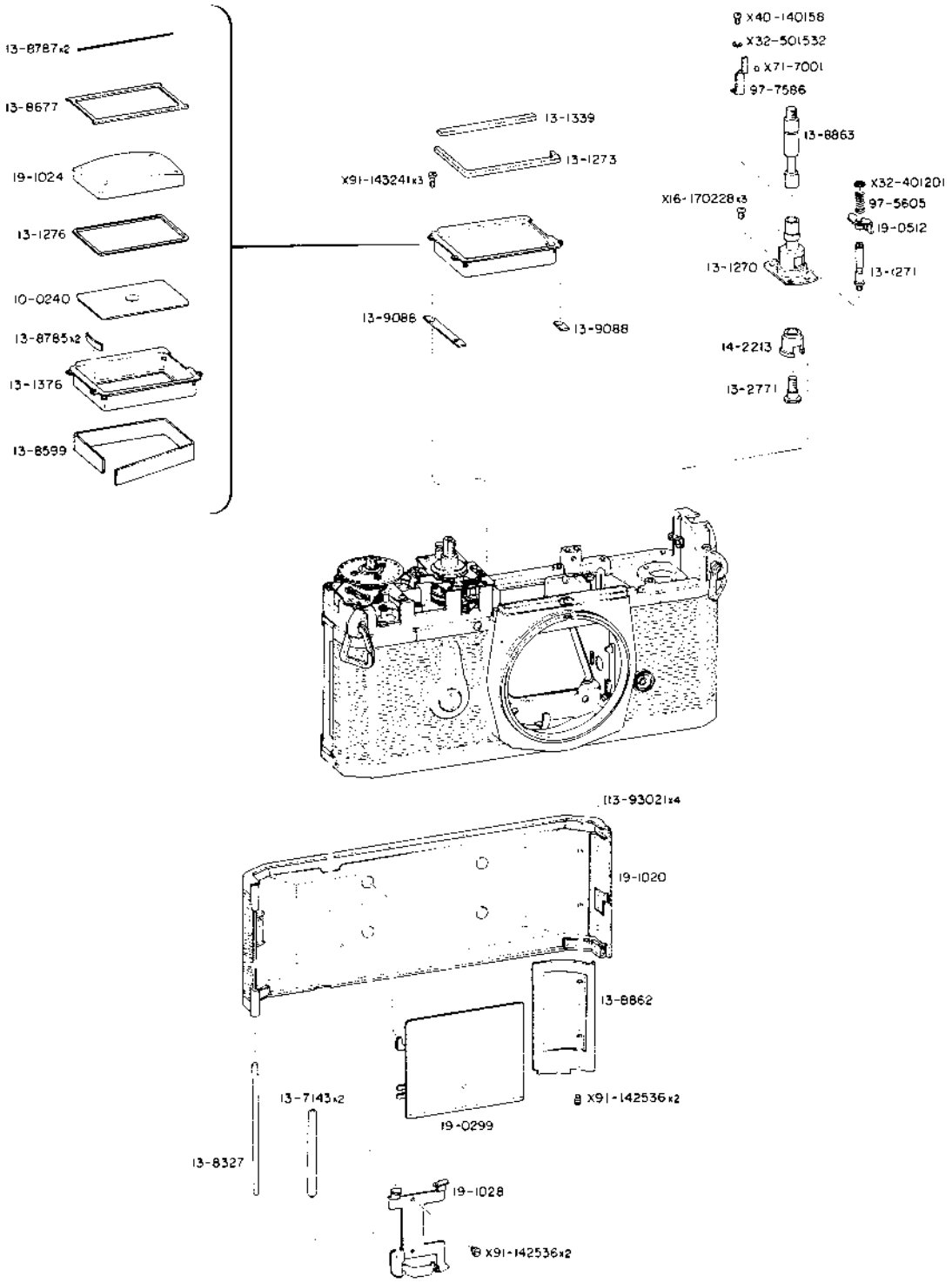

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PARTS LIST

FOCUSING SCREEN & BACK COVER
フォーカシングスクリーン　　裏カバー

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
フォーカシングスクリーン	C	10-0240	1	Focusing Screen
巻き戻し軸受け	D	13-1270	1	Rewind Shaft Holder
開閉レバー軸	D	13-1271	1	Stud
モルトプレーン	D	13-1273	1	Light Shield
マスク	D	13-1276	1	Mask
モルトプレーン	D	13-1339	1	Light Shield
コンデンサーケース	E	13-1376	1	Condenser Lens Frame
巻き戻しフォーク軸	D	13-2771	1	Rewind Fork Shaft
ローラー	D	13-7143	2	Roller
蝶番軸	D	13-8327	1	Shaft of Hinge
ビニールテープ	C	13-8599	1	Vinyl Tape
マスク	D	13-8677	1	Mask
板バネ	D	13-8785	2	Plate Spring
スプリングピン	C	13-8787	2	Spring Pin
パトローネ押え	E	13-8862	1	Cassette Holder
巻き戻し軸	D	13-8863	1	Rewind Shaft
調整ワッシャー カッコ内の数字はワッシャーの厚さを示す（単位mm）	C	13-9086(0.10) 13-9086(0.20)	N	Adjusting Washer Number in parenthesis indicates washer thickness in mm.
調整ワッシャー カッコ内の数字はワッシャーの厚さを示す（単位mm）	C	13-9088(0.03) 13-9088(0.05) 13-9088(0.10) 13-9088(0.20) 13-9088(0.30) 13-9088(0.40) 13-9088(0.50) 13-9088(0.60)	N	Adjusting Washer Number in parenthesis indicates washer thickness in mm.
遮光板	D	13-9302	4	Light Shield
巻き戻しフォーク	C	14-2213	1	Rewind Fork
圧着板	C	19-0299	1	Pressure Plate
開閉レバー	C	19-0512	1	Opening Lever
裏カバー	D	19-1020	1	Back Cover
コンデンサーレンズ	C	19-1024	1	Condenser Lens
ローラー押え	D	19-1028	1	Roller Holder
コイルスプリング	D	97-5605	1	Coil Spring
クリックスプリング	D	97-7586	1	Click Spring
十字ナベビス		X16-170228	3	Screw
緊定ワッシャー		X32-401201	1	Retaining Washer
調整ワッシャー		X32-501531 X32-501532 X32-501533	N	Adjusting Washer
十字ナベビス		X40-140158	1	Screw
スチールボール		X71-7001	1	Steel Ball
平ビス		X91-142536	4	Screw
平ビス		X91-143241	2	Screw

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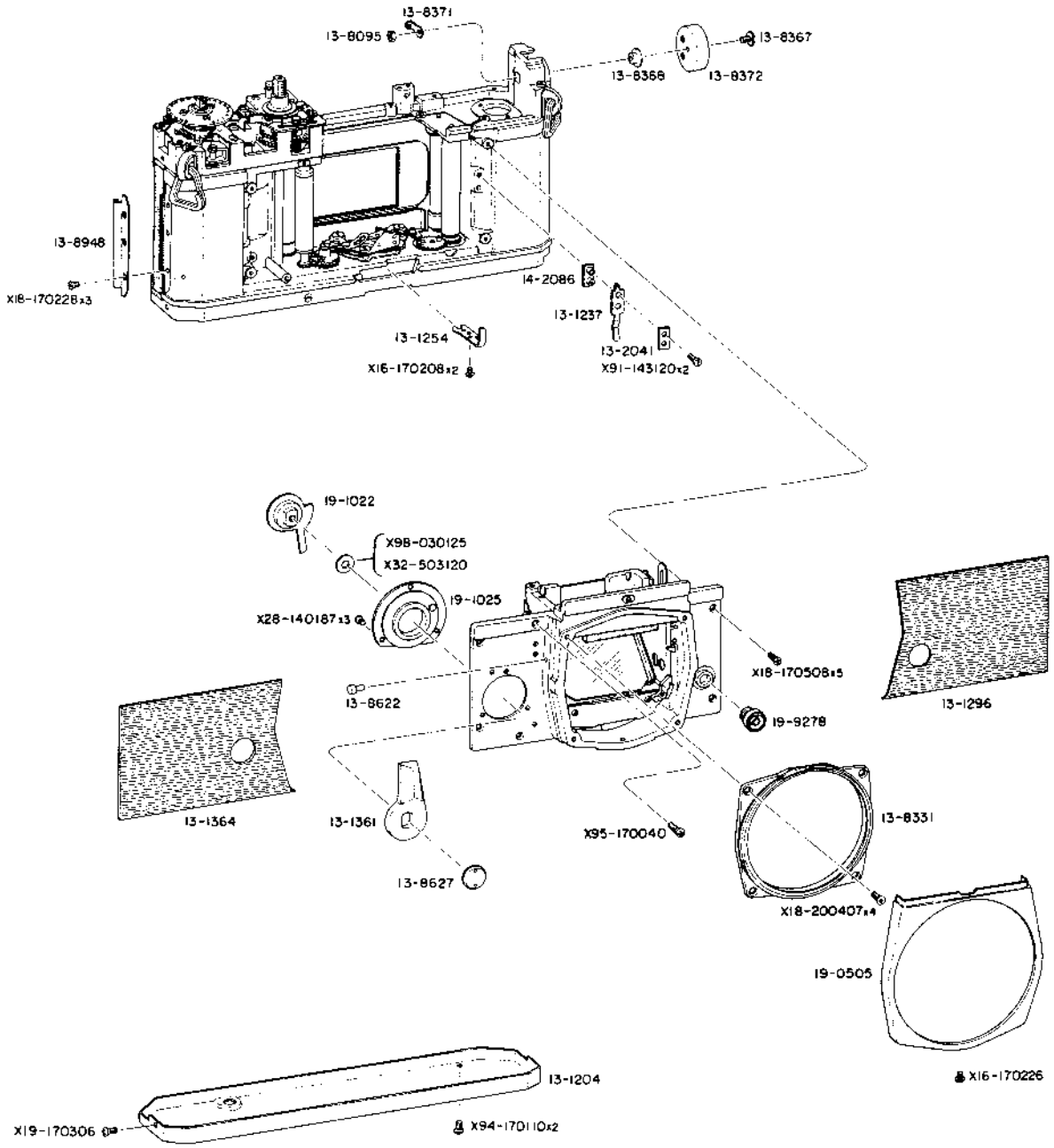

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PARTS LIST

STOP, DOWN LEVER & BASE COVER

測光レバー　　下部カバー

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
下部カバー	C	13-1204	1	Base Cover
アース接片	D	13-1237	1	Earth Contact
絞りたたきレバー	D	13-1254	1	Diaphragm Release Lever
レザー	B	13-1296	1	Leather
測光レバー	D	13-1361	1	Stop, Down Lever
レザー	B	13-1364	1	Leather
絶縁板	D	13-2041	1	Insulator
ナット	D	13-8095	1	Nut
マウント	D	13-8331	1	Lens Mount
カニ目ビス	D	13-8367	1	Screw
絶縁板	D	13-8368	1	Insulator
ラグ板	C	13-8371	1	Lug
電池室	D	13-8372	1	Battery Case
ストッパー	C	13-8622	1	Stopper
カニ目ビス	C	13-8627	1	Pin Face Screw
蝶番	E	13-8948	1	Hinge
絶縁台	D	14-2086	1	Insulator Base
エプロン	C	19-0505	1	Front Cover
フォークレバー	D	19-1022	1	Fork Lever
測光レバー受け	D	19-1025	1	Lever Holder
フラッシュターミナル	D	19-9278	1	Flash Terminal
十字ナベビス		X16-170208	2	Screw
十字ナベビス		X16-170226	1	Screw
十字皿ビス		X18-170228	3	Screw
十字皿ビス		X18-170508	5	Screw
十字皿ビス		X18-200407	4	Screw
十字丸皿ビス		X19-170306	1	Screw
十字皿ビス		X28-140187	3	Screw
ワッシャー		X32-503120	1	Washer
平ビス		X91-143120	2	Screw
皿ビス		X94-170110	2	Screw
丸皿ビス		X95-170040	1	Screw
ワッシャー		X98-030125	1	Washer

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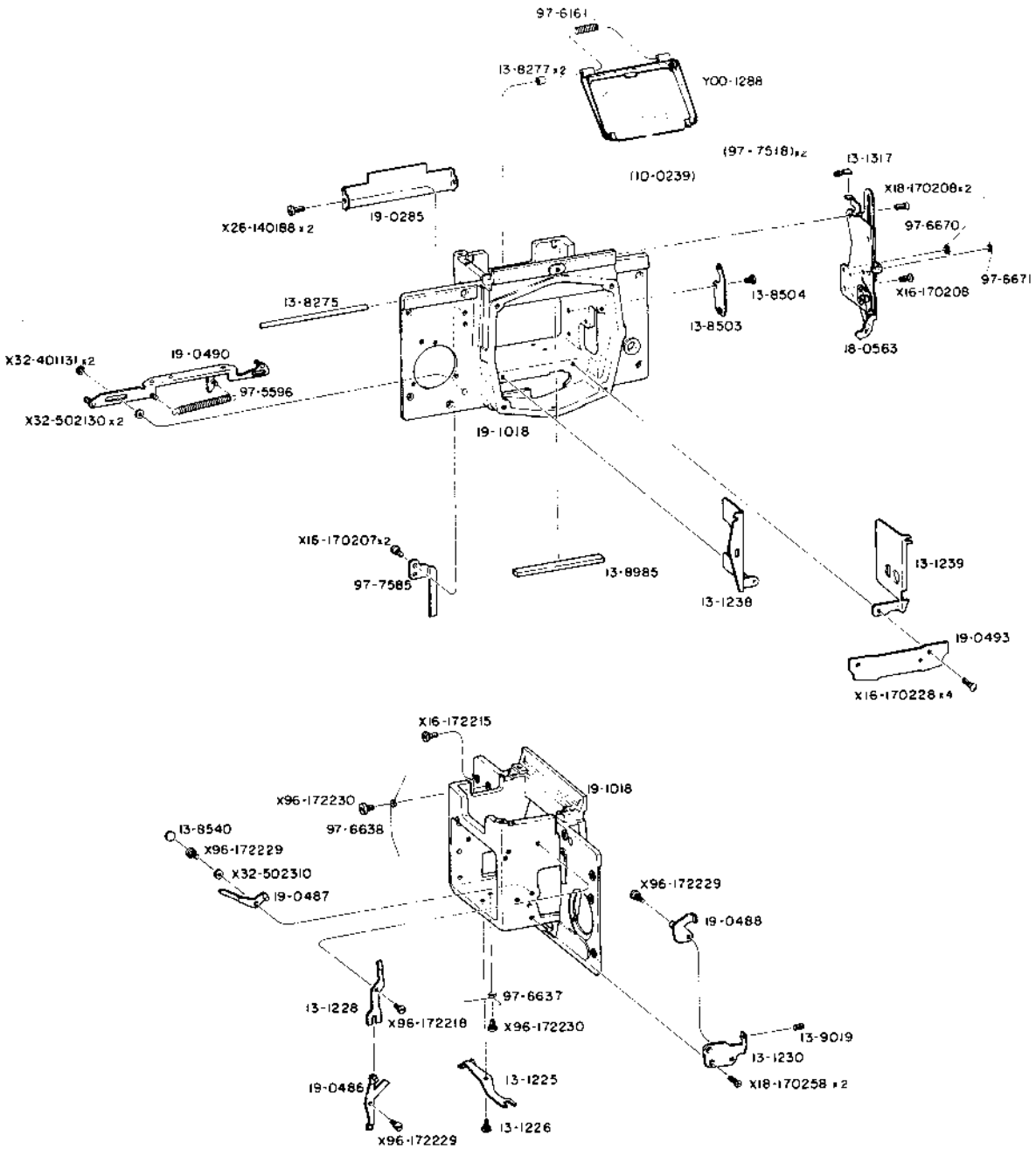

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PARTS LIST

FRONTPANEL(MIRROR BOX) & CORRECTION LEVER UNIT
前　板　　開口補正レバーユニット

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
ミラーユニット	D	Y00-1288	1	Mirror Unit
ミラー	C	10-0239	1	Mirror
連絡レバー	D	13-1225	1	Connecting Lever
段ビス	D	13-1226	1	Screw
緊定レバー	C	13-1228	1	Shutter Release Lever
45° 受けレバーホルダー	D	13-1230	1	Mirror Stopper Holder
遮光板	D	13-1238	1	Light Shield
遮光板	D	13-1239	1	Light Shield
追針	B	13-1317	1	Following Needle
ミラー軸	E	13-8275	1	Mirror Shaft
カラー	D	13-8277	2	Collar
ミラー調整板	E	13-8503	1	Mirror Adjusting Plate
段ビス	E	13-8504	1	Screw
遮光板	C	13-8540	1	Light Shield
クッション	D	13-8985	1	Cushion
調整ビス	E	13-9019	1	Screw
開口補正レバーユニット	D	18-0563	1	Correction Lever Unit
遮光板	D	19-0285	1	Light Shield
みつまたレバー	D	19-0486	1	Shutter Lease Lever
ミラー押上げレバー	E	19-0487	1	Swing Up Lever
45° 受けレバー	D	19-0488	1	Mirror Stopper
メータースイッチレバー	D	19-0490	1	Meter Switch Lever
遮光板	D	19-0493	1	Light Shield
前板	E	19-1018	1	Front Panel (Mirror Box)
コイルスプリング	D	97-5596	1	Coil Spring
スプリング	E	97-6161	1	Spring
スプリング	D	97-6637	1	Spring
スプリング	D	97-6638	1	Spring
スプリング	D	97-6670	1	Spring
スプリング	D	97-6671	1	Spring
押えスプリング	C	97-7518	2	Holder Spring
板バネ	D	97-7585	1	Plate Spring
十字ナベビス		X16-170207	2	Screw
十字ナベビス		X16-170208	1	Screw
十字ナベビス		X16-170228	4	Screw
十字ナベビス		X16-172215	1	Screw
十字皿ビス		X18-170208	2	Screw
十字皿ビス		X18-170258	2	Screw
十字ナベビス		X26-140188	2	Screw
緊定ワッシャー		X32-401131	2	Retaining Washer
ワッシャー		X32-502130	2	Washer
ワッシャー		X32-502310 X32-502311 X32-502312	1	Adjusting Washer
段ビス		X96-172218	1	Screw
段ビス		X96-172229	3	Screw
段ビス		X96-172230	2	Screw

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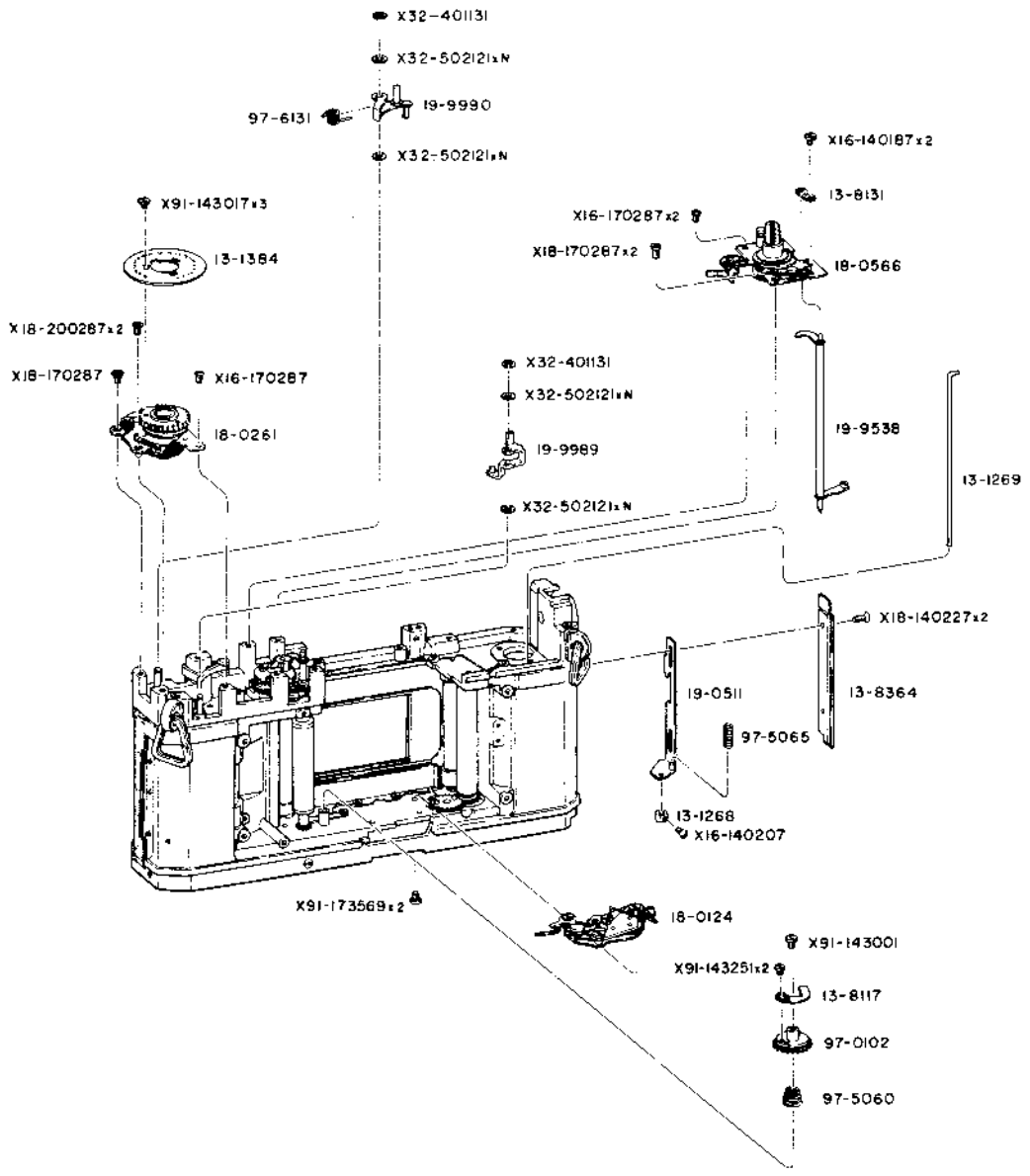

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PARTS LIST

SLOW SHUTTER GOVERNOR
スロー ガ バ ナ ー

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
カラー	D	13-1268	1	Collar
ワイヤー	D	13-1269	1	Wire
枚数盤	D	13-1384	1	Film Counter
スロー爪	E	13-8117	1	Slow Shutter Pawl
スロー棒受け	E	13-8131	1	Slow Shutter Link Holder
開閉爪カバー	E	13-8364	1	Cover Plate
スローガバナー	D	18-0124	1	Slow Shutter Governor
枚数盤ユニット	D	18-0261	1	Film Counter Unit
シャッター棚板	D	18-0566	1	Shutter Speed Selector
開閉爪	C	19-0511	1	Hook
スロー棒	D	19-9538	1	Slow Shutter Link
中間レバー	E	19-9989	1	Counter Connecting Lever
枚数盤戻しレバー	E	19-9990	1	Counter Reset Lever
スローギヤー	D	97-0102	1	Slow Shutter Gear
コイルスプリング	D	97-5060	1	Coil Spring
コイルスプリング	D	97-5065	1	Coil Spring
スプリング	D	97-6131	1	Spring
十字ナベビス		X16-140187	2	Screw
十字ナベビス		X16-140207	1	Screw
十字ナベビス		X16-170287	3	Screw
十字皿ビス		X18-140227	2	Screw
十字皿ビス		X18-170287	3	Screw
十字皿ビス		X18-200287	2	Screw
緊定ワッシャー		X32-401131	2	Retaining Washer
緊定ワッシャー		[X32-502121 X32-502122]	N	Adjusting Washer
平ビス		X91-143001	1	Screw
平ビス		X91-143017	3	Screw
平ビス		X91-143251	2	Screw
平ビス		X91-173569	2	Screw

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EXPLODED VIEW
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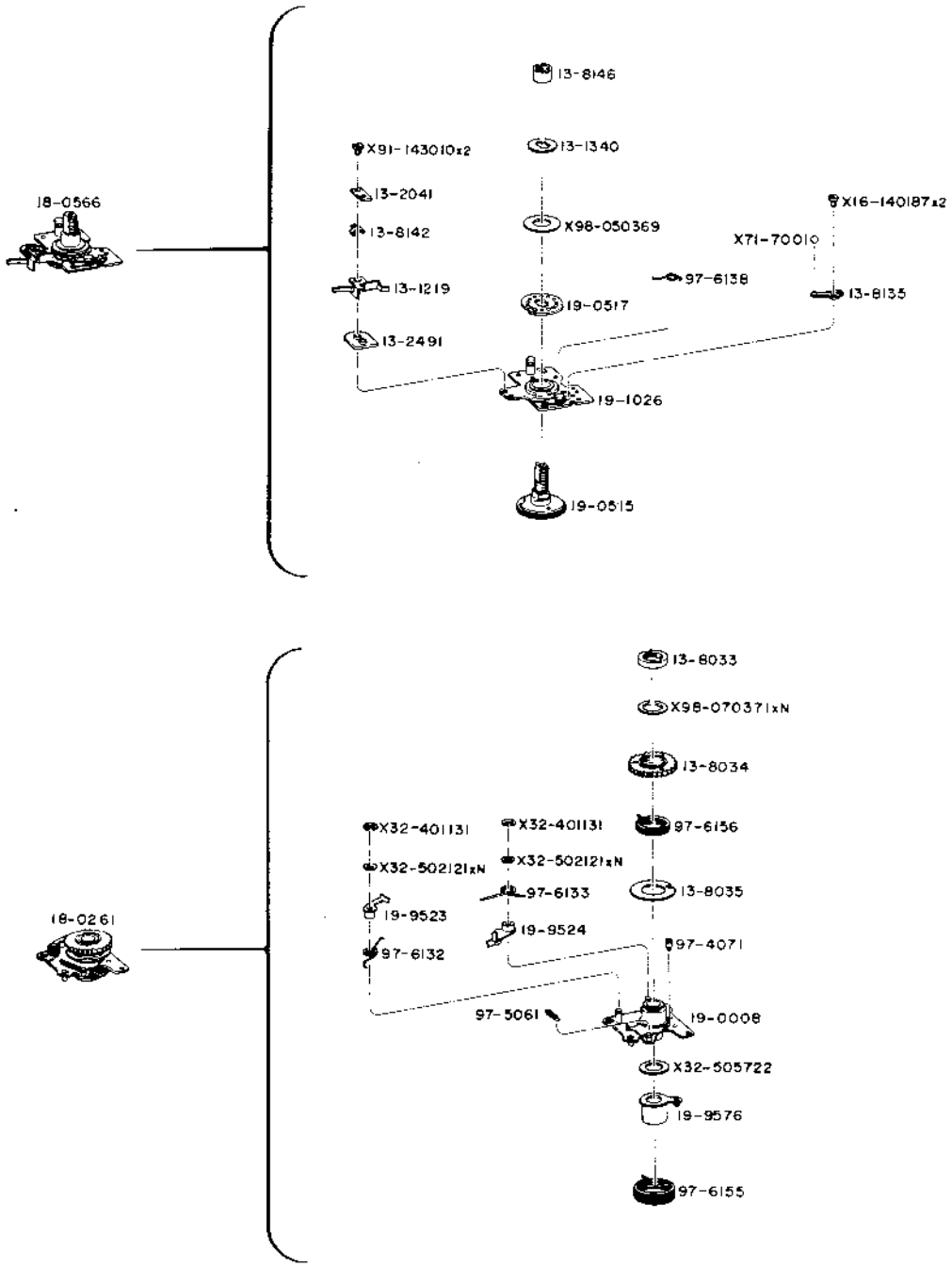

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PARTS LIST

FILM COUNTER UNIT & SHUTTER SPEED SELECTOR

枚数盤ユニット　　シャッター棚板

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
X接片	D	13-1219	1	X Contact
フラッシュカム	D	13-1340	1	Flash Cam
絶縁板	D	13-2041	1	Insulator
絶縁板	D	13-2491	1	Insulator
ナット	E	13-8033	1	Nut
ラチェットギヤー	E	13-8034	1	Film Counter Gear
ワッシャー	E	13-8035	1	Washer
クリックバネ	D	13-8135	1	Click Spring
ラグ板	D	13-8142	1	Lug
ナット	D	13-8146	1	Nut
枚数盤ユニット	D	18-0261	1	Film Counter Unit
シャッター棚板	D	18-0566	1	Shutter Speed Selector
枚数盤地板	E	19-0008	1	Film Counter Base
シャッタースピードカム	D	19-0515	1	Shutter Speed Cam
クリック板	D	19-0517	1	Click Disk
シャッター棚板	D	19-1026	1	Shutter Speed Selector Base
枚数盤ストッパー	E	19-9523	1	Stopper Claw
枚数盤送り爪	D	19-9524	1	Feeding Claw
カラー	E	19-9576	1	Collar
バネ掛けビス	E	97-4071	1	Screw
コイルスプリング	E	97-5061	1	Coil Spring
スプリング	E	97-6132	1	Spring
スプリング	E	97-6133	1	Spring
スプリング	D	97-6138	1	Spring
スプリング	E	97-6155	1	Spring
スプリング	E	97-6156	1	Spring
十字ナベビス		X16-140187	2	Screw
緊定ワッシャー		X32-401131	2	Retaining Washer
調整ワッシャー		X32-502121 X32-502122	N	Adjusting Washer
ワッシャー		X32-505722	N	Washer
スチールボール	B	X71-7001	1	Steel Ball
平ビス		X91-143010	2	Screw
ワッシャー		X98-050369	1	Washer
調整ワッシャー		X98-070370 X98-070371 X98-070372 X98-070373 X98-070374	N	Adjusting Washer

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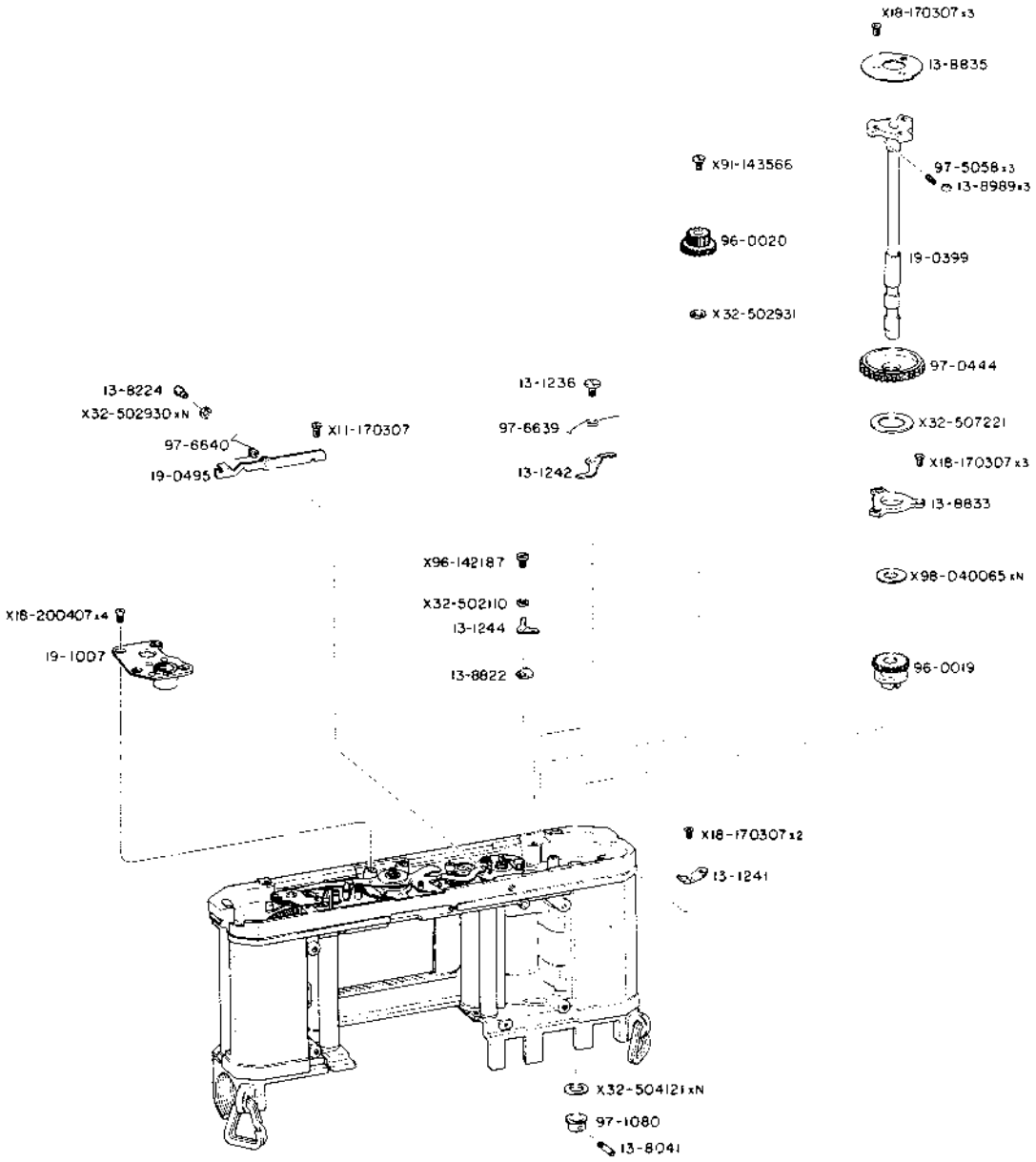

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PARTS LIST

WINDING SHAFT
巻き上げ軸

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
段ビス	D	13-1236	1	Screw
巻き上げストッパー	C	13-1241	1	Winding Stopper
巻き戻しクランプレバー	E	13-1242	1	Rewind Clamp Lever
緊定外しレバー	D	13-1244	1	Clutch Release Lever
ビス	D	13-8041	1	Screw
レリースレバー軸	E	13-8224	1	Release Lever Shaft
ワッシャー	E	13-8822	1	Washer
巻き上げギヤーメタル	E	13-8833	1	Winding Gear Base
風車押え	D	13-8835	1	Cover Plate
ローラー	D	13-8989	3	Roller
巻き上げ軸	D	19-0399	1	Winding Shaft
プロペラレバー	E	19-0495	1	Release Lever
三脚取り付けネジ	D	19-1007	1	Tripod Socket
スプールキヤー	D	96-0019	1	Spool Gear
二段ギヤー	E	96-0020	1	Stop Gear
巻き上げキヤー	D	97-0444	1	Winding Gear
カラー	E	97-1080	1	Winding Collar
コイルスプリング	C	97-5058	3	Coil Spring
スプリング	D	97-6639	1	Spring
スプリング	D	97-6640	1	Spring
平ビス		X11-170307	1	Screw
十字皿ビス		X18-170307	8	Screw
十字皿ビス		X18-200407	4	Screw
ワッシャー		X32-502110	N	Washer
ワッシャー		X32-502930	N	Washer
ワッシャー		X32-502931	N	Washer
調整ワッシャー		X32-504121 X32-504122	N	Adjusting Washer
ワッシャー		X32-507221	1	Washer
平ビス		X91-143566	1	Screw
段ビス		X96-142187	1	Screw
ワッシャー		X98-040065	N	Washer

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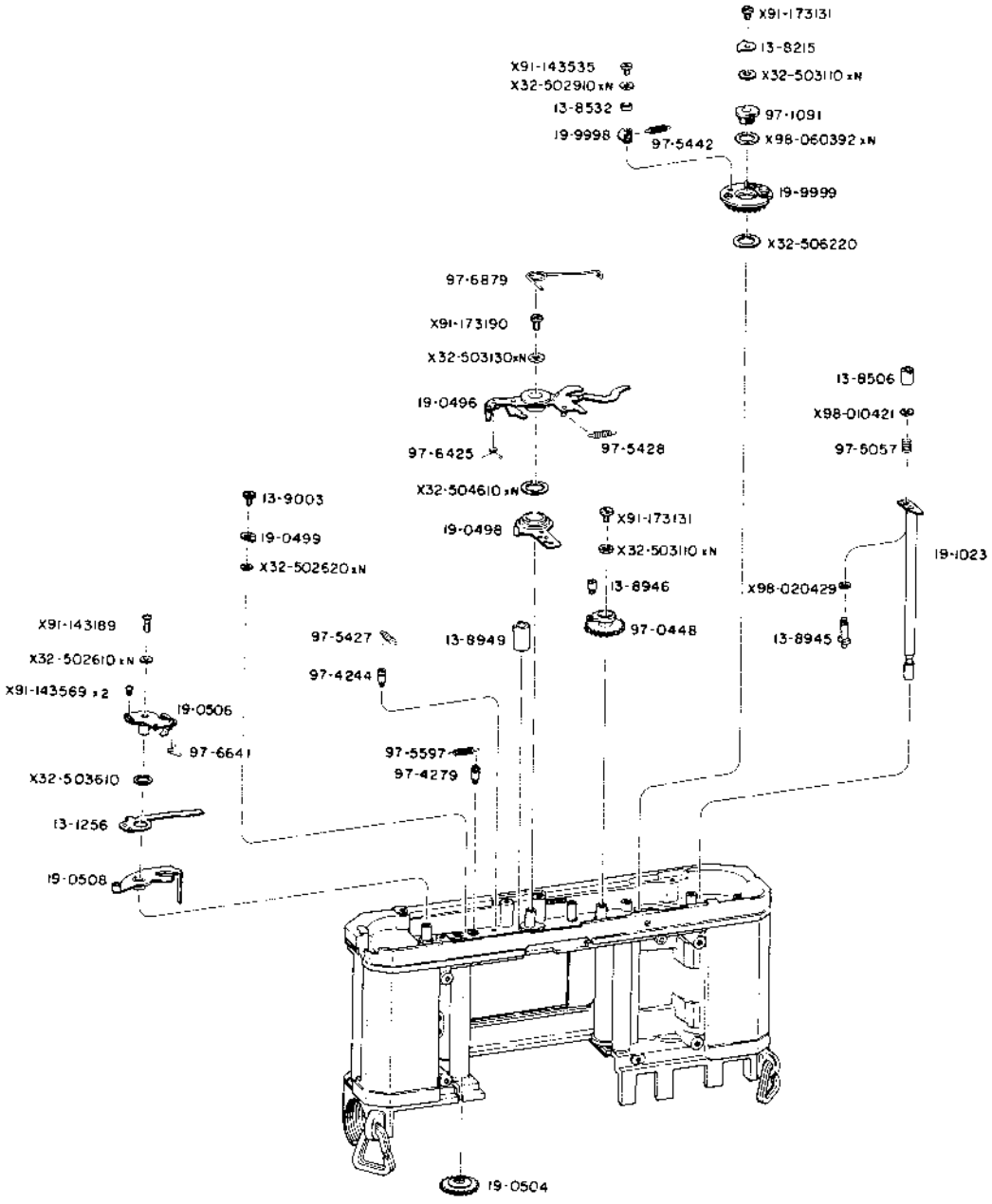
of
CANON TLb



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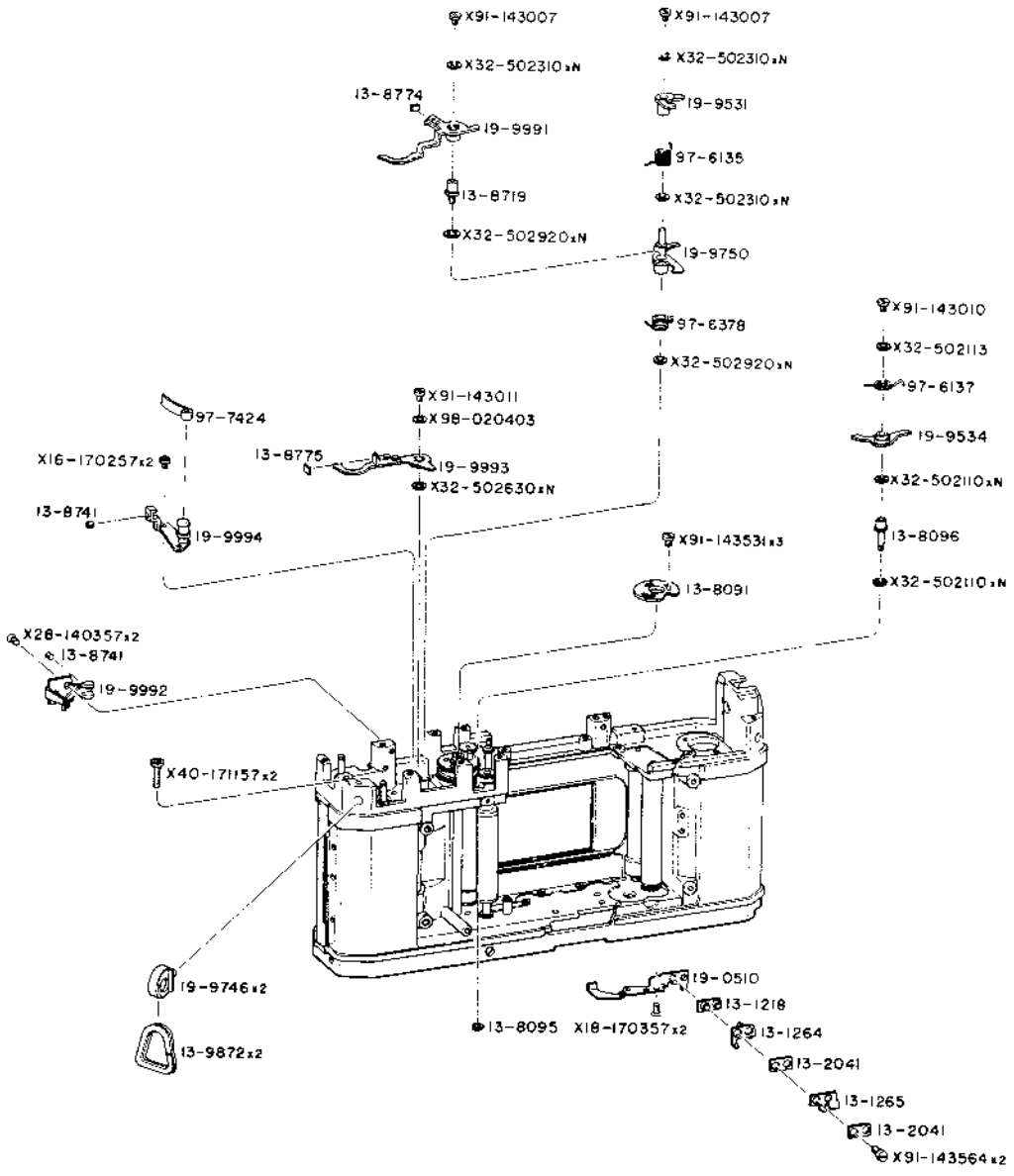
PARTS LIST

DIAPHRAGM RELEASE LEVER & SHUTTER RELEASE SHAFT

蓄勢レバー　　シャッターレリーズ軸

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
ミラーチャージレバー	D	13-1256	1	Mirror Charge Lever
六の字	D	13-8215	1	Shutter Charge Pawl
ナット	D	13-8506	1	Nut
カラー	D	13-8532	1	Collar
シャッター軸ガイド	E	13-8945	1	Shutter Shaft Guide
ビス	D	13-8946	1	Screw
チューブ	E	13-8949	1	Tube
止めビス	E	13-9003	1	Screw
蓄勢レバー	D	19-0496	1	Diaphragm Release Lever
絞りレバー	D	19-0498	1	Diaphragm Release Lever
だるまレバー	E	19-0499	1	Diaphragm Reset Lever
ミラー戻しギヤー	D	19-0504	1	Mirror Reset Gear
ミラー駆動レバー	D	19-0506	1	Clamp Lever
ミラーチャージレバー	D	19-0508	1	Mirror Charge Lever
レリース棒	E	19-1023	1	Shutter Release Shaft
ブレーキレバー	D	19-9998	1	Brake Lever
シャッターチャージギヤー	D	19-9999	1	Shutter Charge Gear
チャージギヤー	E	97-0448	1	Charge Gear
押え環	D	97-1091	1	Assembly Collar
バネ掛けビス	E	97-4244	1	Screw
バネ掛けビス	E	97-4279	1	Screw
コイルスプリング	D	97-5057	1	Coil Spring
コイルスプリング	D	97-5427	1	Coil Spring
コイルスプリング	C	97-5428	1	Coil Spring
コイルスプリング	D	97-5442	1	Coil Spring
コイルスプリング	D	97-5597	1	Coil Spring
スプリング	D	97-6425	1	Spring
スプリング	D	97-6641	1	Spring
スプリング	D	97-6879	1	Spring
調整ワッシャー		X32-502610 X32-502611 X32-502612	N	Adjusting Washer
ワッシャー		X32-502620	N	Washer
ワッシャー		X32-502910	N	Washer
調整ワッシャー		X32-503110 X32-501111 X32-503112 X32-503113	N	Adjusting Washer
調整ワッシャー		X32-503130 X32-503131 X32-503132	N	Adjusting Washer
ワッシャー		X32-503610	N	Washer
調整ワッシャー		X32-504610 X32-504611 X32-504612	N	Adjusting Washer
ワッシャー		X32-506220	1	Washer
平ビス		X91-143189	1	Screw
平ビス		X91-143535	1	Screw
平ビス		X91-143569	2	Screw
平ビス		X91-173131	2	Screw
平ビス		X91-173190	1	Screw
ワッシャー		X98-010421	1	Washer
ワッシャー		X98-020429	1	Washer
ワッシャー		X98-060392	N	Washer

EXPLODED VIEW
of
CANON TLb



SCALE 1-2.0

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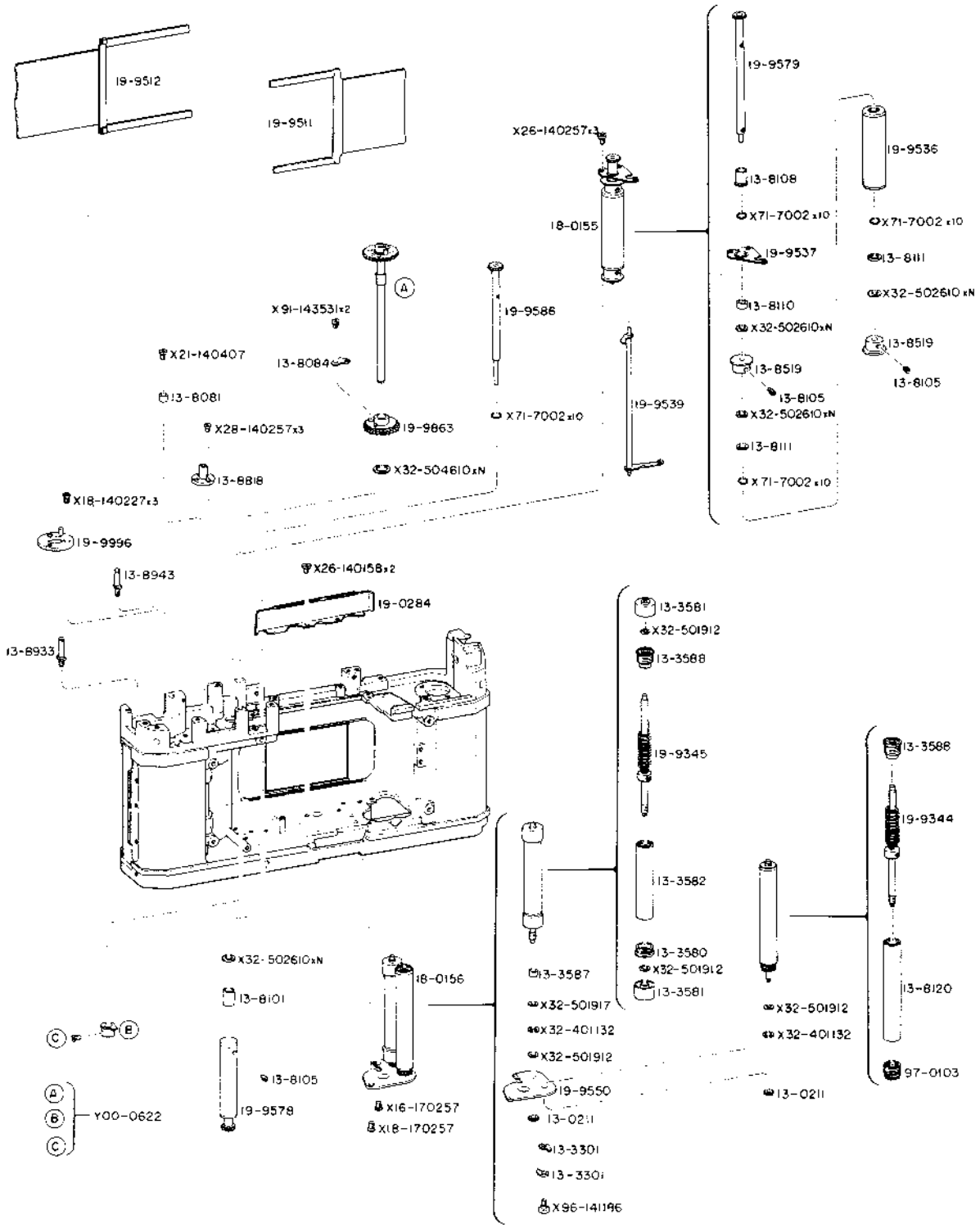
PARTS LIST

SHUTTER BRAKE & RELEASE CAM
シャッターブレーキ　　けりカム

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
絶縁台	D	13-1218	1	Insulator Base
フラッシュ接片	D	13-1264	1	Flash Contact
フラッシュ接片	D	13-1265	1	Flash Contact
絶縁板	D	13-2041	2	Insulator
けりカム	E	13-8091	1	Release Cam
ナット	D	13-8095	1	Nut
レリーズレバー軸	E	13-8096	1	Release Lever Shaft
先幕ブレーキ軸	D	13-8719	1	1st Curtain Brake Shaft
調整ビス	D	13-8741	2	Screw
鹿皮	B	13-8774	1	Brake Leather
鹿皮	B	13-8775	1	Brake Leather
吊環	C	13-9872	2	Neck Strap Relation
後幕解除レバー	D	19-0510	1	2nd Curtain Release Lever
ふりこ	E	19-9531	1	2nd Curtain Release Lever
緊定レバー	D	19-9534	1	Shutter Release Lever
耳環	C	19-9746	2	Neck Strap Catch
カマ	D	19-9750	1	2nd Curtain Release Lever
先幕ブレーキ	E	19-9991	1	1st Curtain Brake
先幕ブレーキ地板	E	19-9992	1	1st Curtain Brake Base
後幕ブレーキ	E	19-9993	1	2nd Curtain Brake
後幕ブレーキ地板	E	19-9994	1	2nd Curtain Brake Base
スプリング	D	97-6135	1	Spring
スプリング	D	97-6137	1	Spring
スプリング	D	97-6378	1	Spring
ブレーキバネ	E	97-7424	1	Brake Band
十字ナベビス		X16-170257	2	Screw
十字皿ビス		X18-170357	2	Screw
十字皿ビス		X28-140357	2	Screw
調整ワッシャー		X32-502110 X32-502111 X32-502112 X32-502113	N	Adjusting Washer
調整ワッシャー		X32-502310 X32-502311 X32-502312	N	Adjusting Washer
ワッシャー		X32-502630	N	Washer
調整ワッシャー		X32-502920 X32-502921 X32-502922	N	Adjusting Washer
十字ナベビス		X40-171157	2	Screw
平ビス		X91-143007	2	Screw
平ビス		X91-143010	1	Screw
平ビス		X91-143011	1	Screw
平ビス		X91-143531	3	Screw
平ビス		X91-143564	2	Screw
ワッシャー		X98-020403	N	Washer

REF. NO. 1-20397

EXPLODED VIEW
of
CANON TLb



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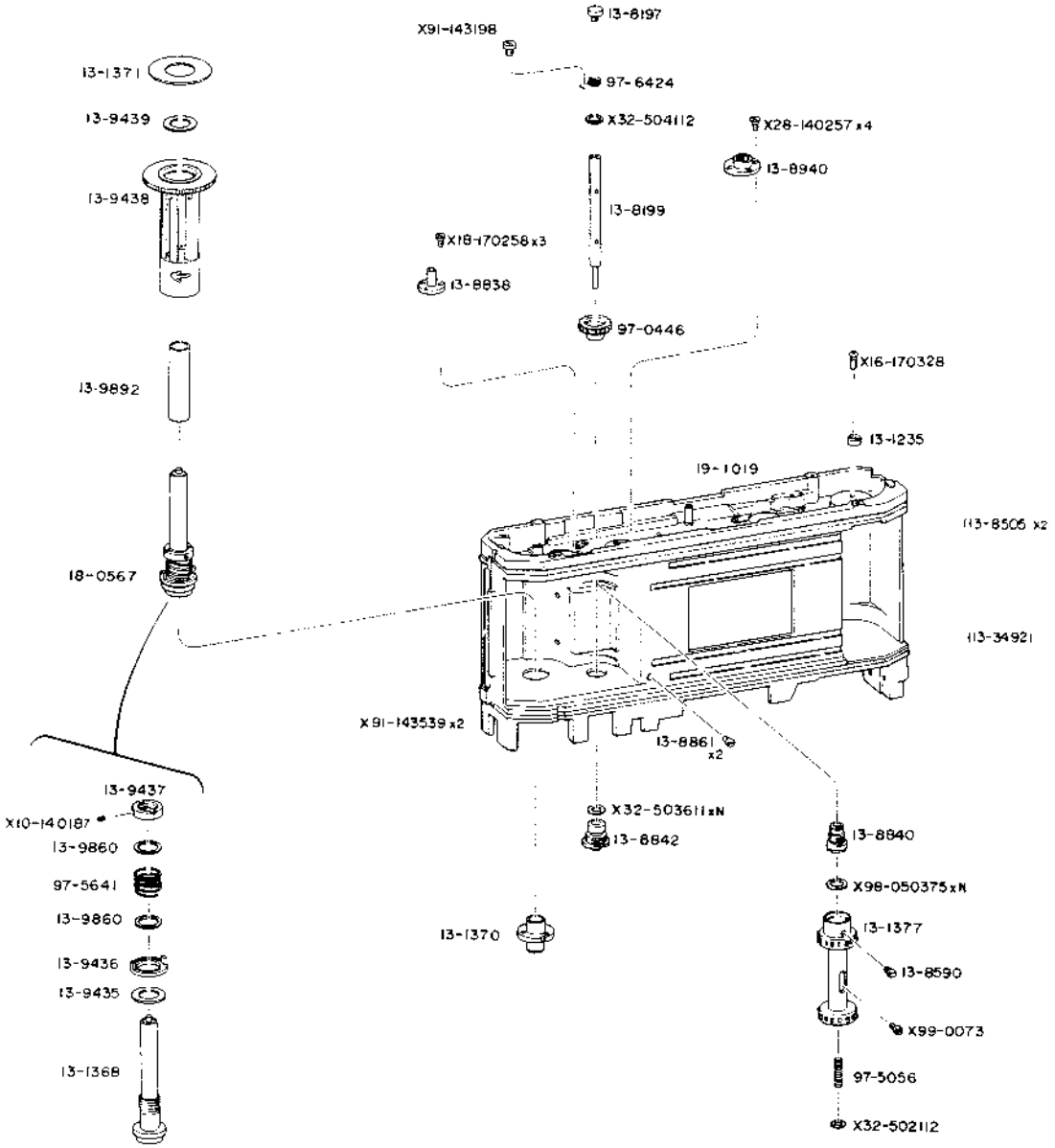
PARTS LIST

1st CURTAIN DRUM & SPRING DRUM UNIT

先幕ドラム　　スプリングドラムユニット

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
先幕キヤー	E	Y00-0622	1	1st Curtain Gear
ナット	D	13-0211	2	Nut
爪	D	13-3301	2	Claw
ドラムキャップ	D	13-3580	1	Flange
ローラー	D	13-3581	2	Roller
先幕ドラム	D	13-3582	1	1st Curtain Drum
カラー	D	13-3587	1	Collar
ナット	D	13-3588	2	Nut
偏心コロ	E	13-8081	1	Eccentric Collar
後幕フック	D	13-8084	1	2nd Curtain Hook
カラー	E	13-8101	1	Collar
セットビス	D	13-8105	3	Screw
カラー	D	13-8108	1	Collar
カラー	D	13-8110	1	Collar
ワッシャー	D	13-8111	2	Washer
後幕スプリングドラム	E	13-8120	1	2nd Curtain Spring Drum
ドラムコロ	D	13-8519	2	Flange
ブレーキ軸	E	13-8818	1	Brake Shaft
戻しレバー軸	E	13-8933	1	Reset Lever Shaft
レバー軸	E	13-8943	1	Connecting Lever Shaft
先幕ドラムユニット	D	18-0155	1	1st Curtain Drum
スプリングドラム	D	18-0156	1	Spring Drum Unit
遮光板	E	19-0284	1	Light Shield
後幕スプリング	D	19-9344	1	2nd Curtain Spring
先幕スプリング	D	19-9345	1	1st Curtain Spring
先幕	D	19-9511	1	1st Curtain
後幕	D	19-9512	1	2nd Curtain
先幕ドラム	D	19-9536	1	1st Curtain Drum
先幕ドラム地板	E	19-9537	1	1st Curtain Drum Base
アンクル軸	D	19-9539	1	Anchor Release Link
スプリング地板	E	19-9550	1	Curtain Spring Base
後幕ドラム	E	19-9578	1	2nd Curtain Drum
先幕ドラム軸	D	19-9579	1	1st Curtain Drum Shaft
後幕ドラム軸	E	19-9586	1	2nd Curtain Drum Shaft
後幕キヤー	E	19-9863	1	2nd Curtain Gear
枚数盤カム	E	19-9996	1	Counter Cam
後幕スプリングキヤー	E	97-0103	1	2nd Curtain Spring Gear
十字ナベビス		X16-170257	1	Screw
十字皿ビス		X18-140227	3	Screw
十字皿ビス		X18-170257	1	Screw
平ビス		X21-140407	1	Screw
十字ナベビス		X26-140158	2	Screw
十字ナベビス		X26-140257	3	Screw
十字皿ビス		X28-140257	3	Screw
緊定ワッシャー		X32-401132	2	Retaining Washer
ワッシャー		X32-501912	4	Washer
ワッシャー		X32-501917	1	Washer
調整ワッシャー		X32-502610 X32-506211 X32-502612	N	Adjusting Washer
調整ワッシャー		X32-504610 X32-404611 X32-504612	N	Adjusting Washer
スチールボール		X71-7002	40	Steel Ball
平ビス		X91-143531	2	Screw
段ビス		X96-141186	1	Screw

EXPLODED VIEW
of
CANON TLb



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PARTS LIST

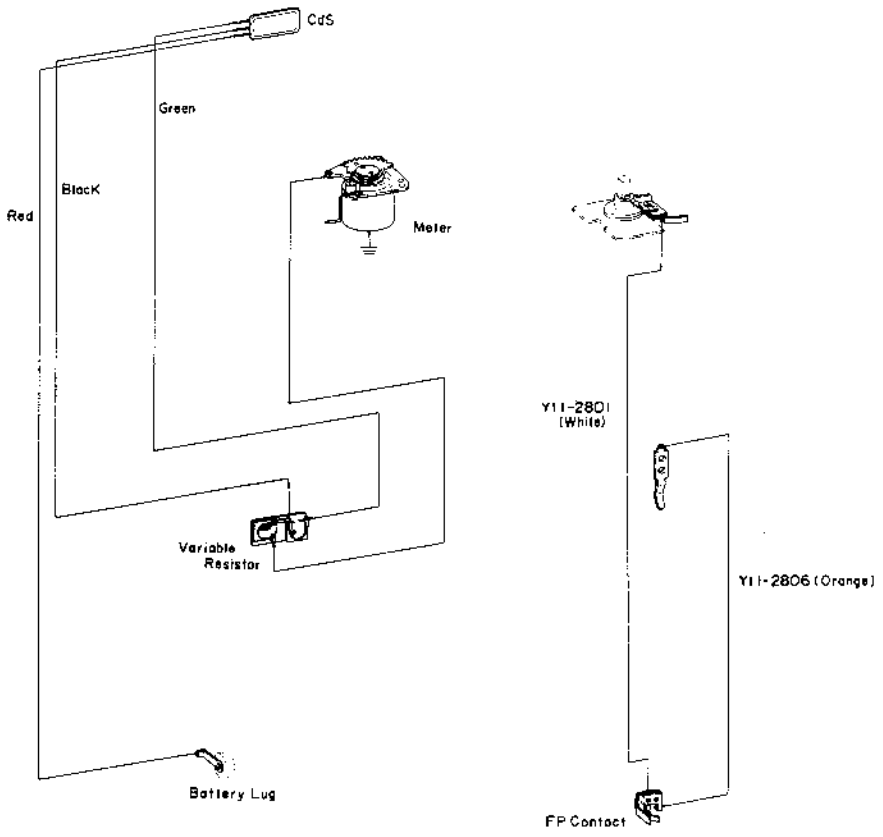
SPROCKET & TAKE UP SPOOL
スプロケット　　巻き取りスプール

部品名称	CLASS	PARTS NO.	QTY.	DESCRIPTION
エキセンカラー	D	13-1235	1	Eccentric Collar
スプール軸	D	13-1368	1	Spool Shaft
スプール受け	E	13-1370	1	Spool Support
遮光円盤	C	13-1371	1	Light Shield
スプロケット	E	13-1377	1	Sprocket
別診	C	13-3492	1	Light Shield
巻き戻し釦	E	13-8197	1	Rewind Button
スプロケット軸	E	13-8199	1	Sprocket Shaft
モルトプレーン	D	13-8505	2	Light Shield
平ヒス	C	13-8590	1	Screw
アイドルキヤー軸	E	13-8838	1	Idle Gear Shaft
スプロケットクラッチ	E	13-8840	1	Sprocket Clutch
スプロケット軸受け	E	13-8842	1	Sprocket Bushing
フィルムガイドヒス	D	13-8861	2	Film Guide Screw
巻き上げキヤー軸受け	E	13-8940	1	Winding Gear Bushing
ワッシャー	C	13-9435	1	Washer
スプールメタル	D	13-9436	1	Spool Metal
ナット	D	13-9437	1	Nut
スプール	D	13-9438	1	Spool
ワッシャー	D	13-9439	1	Washer
ワッシャー	D	13-9860	2	Washer
スプールカラー	D	13-9892	1	Spool Collar
スプールユニット	D	18-0567	1	Spool Unit
本体	E	19-1019	1	Body
スプロケットギヤー	E	97-0446	1	Sprocket Gear
コイルスプリング	E	97-5056	1	Coil Spring
コイルスプリング	D	97-5641	1	Coil Spring
スプリング	D	97-6424	1	Spring
止めヒス		X10-140187	1	Screw
十字ナベヒス		X16-170328	1	Screw
十字皿ビス		X18-170258	3	Screw
十字皿ビス		X28-140257	4	Screw
ワッシャー		X32-502112	1	Washer
調整ワッシャー		X32-503611 X32-503612	N	Adjusting Washer
ワッシャー		X32-504112	1	Washer
平ヒス		X91-143198	1	Screw
平ビス		X91-143539	2	Screw
調整ワッシャー		X98-050375 X98-050376	N	Adjusting Washer
平ヒス		X99-0073	1	Screw

REF. NO. 1-20397

WIRING DIAGRAM
結 線 図

EXPLODED VIEW of CANON TLb



SCALE 1-2.0

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CANON REPAIR GUIDE

CANON TLb
(REF. NO. 1-20397)

CANON INC. JAPAN

CONTENTS

Introduction 1

1. Replacement & Adjustment

1.1 Spool Unit 2

1.2 Meter 3

1.3 Correction Lever Unit 5

Introduction

The TLb is a popularly priced version of the Canon FTb. It has been designed by deleting some of the non-essential functions of the FTb without sacrificing any quality.

The following functions have been deleted:

1. Self Timer
2. Mirror Up Lock
3. Battery Checker
4. Meter Switch
5. Canon Booster Connection
6. Canon CAT System Automatic Flash

The Canon QL mechanism has been changed to the multi-slot spool used in the Canon F-1.

The metering system has been changed from the Canon center area semi-spot metering to a center-weighted averaging system.

These changes make this a very desirable camera for either budget minded photographers who want a quality 35mm SLR but don't need all the features of an F-1 or FTb, or for a professional or serious who needs a second body to compliment his F-1 or FTb.

Special Precautions

1. When adjusting the meter it is mandatory to shield the CdS from extraneous light. The CdS is located above the eyepiece and is easily effected by extraneous light if the top cover is not in place.

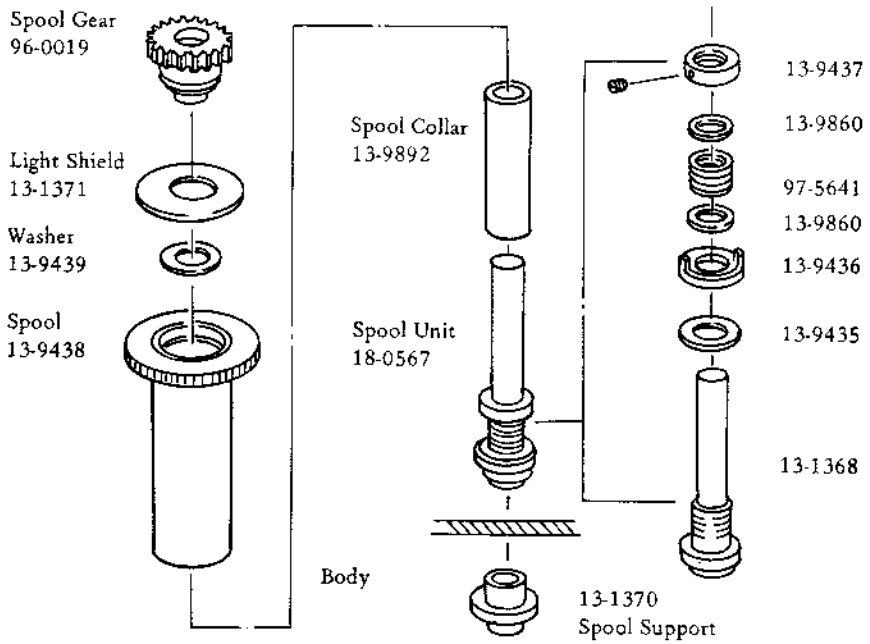
2. Molded plastic seats are used on the top cover for the shutter speed dial and the rewind crank. Solvents such as Ketone or Acetone should never be used on any plastic part. Jewelers rogue or other fine metal polishes can be used to clean the plastic. Any repair instructions not specifically covered in this guide are the same as for the FTb.

1. Replacement and Adjustment

1.1 Spool Unit

1. Apply MoS_2 grease (UTLM-5) to Washers (13-9435 and 13-9860).

2. Assemble into the camera as shown in figure 1.



3. Adjustment

1) Torque Driver Method: 100 to 180 gcm

2) Tension Gauge Method:

Wind string around the spool several times. Attach a Correx tension gauge to the end of the string and pull.

Limit: 160 to 280 g.

3) Adjust by turning Nut (13-9437) after loosening its setscrew.

Note: Nut (13-9437) has left hand threads.

1.2 Meter Unit

1. Install the meter as shown in figure 2.

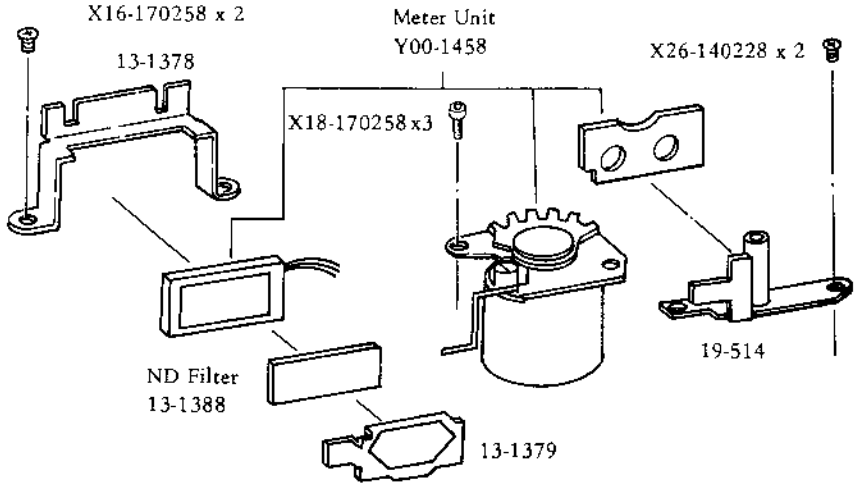


Fig. 2

2. Install the following needle as shown in FTb Repair Guide, pg. 21 (2.13.1).
Apply "Pliobond" or other suitable bond to the needle at the "X" shown in figure 3.

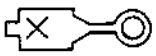


Fig. 3

3. Meter Set Cam
   1) Mount Meter Set Cam (13-1281) as shown in figure 4. This is the correct alignment for ASA 50, 1/500 sec.
   2) Make the adjustment by changing the mesh of the gears.
   Note: "A", "B", and "C" must be in a strait line perpendicular to the Meter Set Cam.

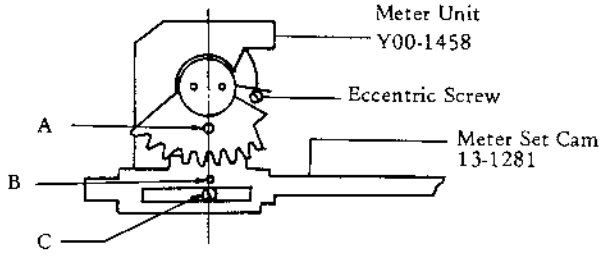


Fig. 4

4. Adjustment

The center of the following needle is the index point.

Meter K = 12.5

EV	ASA	Shutter speed	Aperture	Brightness (cd/m^2)	Toler-ance	Adjustment
9	100	1/15	5.6	64	±0.75F	Eccentric Screw (Fig. 4)
12	100	1/125	5.6	512	±0.75F	VR1
15	100	1/500	8	4096	±0.75F	VR2

Variable Resistors

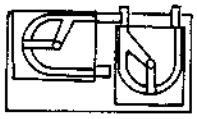


Fig. 5

5. Mount the warning lever as described in the FTb Repair Guide, pg. 23 (2.13.5).

6. Mount the warning mark as shown in the FTb Repair Guide, pg. 23 (2.13.6).

1.3 Correction Lever Unit

1. Adjust the distance from the Lens mount to correction Lever (18-0563) to 6.7±0.1mm.
2. Do not push the correction lever when measuring.
3. Adjust back focus before adjusting the correction lever.
4. If a height gage is not availabe, use slide calipers to check the distance.

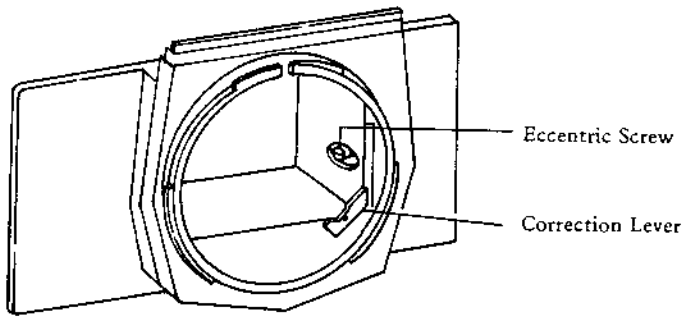


Fig. 6

CANON SERVICE TOOLS LIST

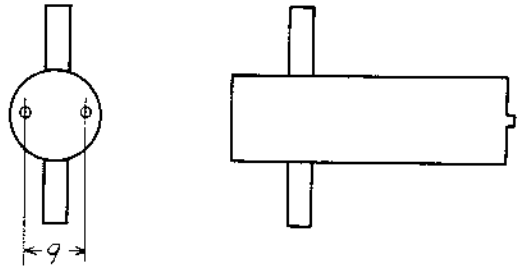
CANON FT b
(REF. NO. 1-20395)

TEST EQUIPMENT

Use	Name of Test Equipment
Shutter	1. PA-16 Transistorized Shutter Tester or Simplified Shutter Test Unit 7E-24 2. Drum Shutter Tester
Exposure Meter	1. Inspection Device for Canon Meter-1 2. Standard Checker-2 (CdS) 3. Ω Meter
View Finder	1. Universal Range View Finder Collimator 2. Traveling Microscope
Mirror Angle	1. Universal Type 90° Collimator-1 2. Universal Type 90° Collimator Attachment-1
Field of View	1. Universal Parallax Collimator
Focus Plane	1. Dial Gauge (42. 14)
Adjusting	1. 1-20301 Release Lever Gauge-2 2. 1-20301 Substitutive Winding Lever-1 3. 1-20301 Substitutive Cam-1 4. 1-20371 Booster Socket Gauge-1

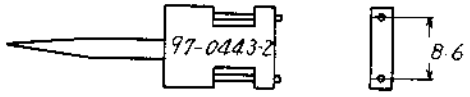
SPECIAL SCREWDRIVERS

T06A-13-8824-1



Tightening Spool Shaft
(Common to FT)

T06A-97-0443-2

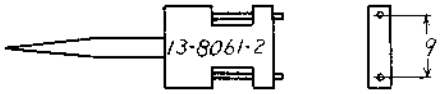


Tightening Take-up Spool Shaft
(Common to FT)

T06A-13-8627-3

Tightening Self-timer Lever
(Common to FT)

T06A-13-8061-2

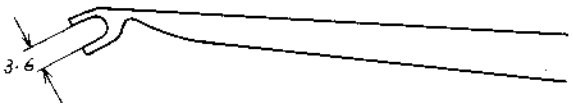


Tightening Winding Lever
(Common to FT)

T06A-13-8154-3

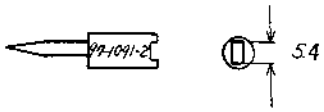
Tightening Shutter Dial
(Common to FT)

T01S-13-8075-2



Tightening Second Curtain Release Lever
(Common to FT)

T06A-97-1091-2



Tightening Shutter Charge Gear
(Common to FT)

CANON SERVICE TOOLS LIST

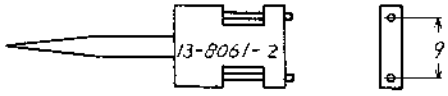
CANON TLb
(REF. NO. 1-20397)

TESTING EQUIPMENT

Use	Name of Testing Equipment
Shutter	1. PA-16 Transistorized Shutter Tester or Smiplified Shutter Test Unit 7E-24
	2. Drum Shutter Tester-7
Exposure Meter	1. Inspection Device for Canon Meter-1
	2. Standard Checker-2 (CdS)
	3. Ohm Meter
View Finder	1. Universal Range View Finder Collimator
	2. Traveling Microscope
Mirror Angle	1. Universal Type 90 Degrees Collimator-1
	2. Universal Type 90 Degrees Collimator Attachment-1
Field of View	1. Universal Parallax Collimator
Flange	1. Dial Gauge (42.14)
Adjustment	1. 1-20301 Release Lever Gauge-2
	2. 1-20301 Substitutive Winding Lever-1
	3. 1-20301 Substitutive Cam-1

SPECIAL SCREWDRIVERS

T0631-13-8061-2



Tightening Winding Lever (Common to FTb)

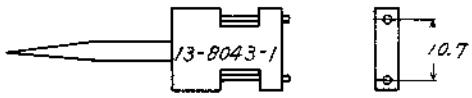
T0631-13-8154-3

Tightening Shutter Dial (Common to FT, FTb)

T0630-13-8627-3

Tightening Stop, Down Lever (Common to FT, FTb)

T06A-13-8043-1

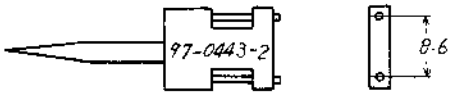


Tightening Spool Shaft (Common to PX)

T06A-97-1091-2

Tightening Shutter Charge Gear (Common to FT, FTb)

T01S-13-8075-2



Tightening Second Curtain Release Lever (Common to FT, FTb)